



Lorenzo Magnea

## Curriculum Vitae

### Current Position

- Professor of Theoretical Physics, University of Torino

### 1. Biography and Education

- Born in Torino, Italy, March 1961.
- “Laurea” in Physics, University of Torino, July 1985.
  - Thesis advisor: Prof. Tullio Regge.
  - Thesis: “Field theories on simplicial lattices”.
  - Final grade: 110/110 with Honours.
- Drafted for National Civil Service, March 1985 – February 1986.
  - Coordinating non-profit social-work activities at Caritas, Torino Dioceses.
- Married to Lena Ulrika Blom, February 1990.
  - Children: Daniele (b. 1990), Erica (b. 1992).
- Ph.D. in Physics, State University of New York at Stony Brook (USA), August 1990.
  - Thesis advisor: Prof. George Sterman.
  - Thesis: “On the infrared-collinear structure of gauge theories”.

- **Training Scholarships:**
  - Graduate Scholarship of the Istituto Nazionale di Fisica Nucleare (INFN), for post-graduate training in Italy, 1985, (declined, to enroll in the Ph.D. program at Stony Brook).
  - Angelo Della Riccia Fellowship in 1987, 1988 and 1989.
- **Languages:**
  - Italian (mother tongue).
  - English (fluent).
  - French (good).
  - Swedish (good).

## 2. Research Positions

- **Graduate Assistant**, C. N. Yang Institute for Theoretical Physics, State University of New York at Stony Brook (USA),  
September 1986 – August 1990.
- **Post-Doctoral Associate**, F.R. Newman Laboratory of Nuclear Studies, Cornell University, USA.  
September 1990 – August 1992.
- **Assistant Professor**, Department of Theoretical Physics, University of Torino, Italy.  
October 1990 – September 2002.
- **Visiting Scientist**, NORDITA, Copenhagen, Denmark.  
September 1995 – August 1997.
- **Associate Professor**, Department of Theoretical Physics, University of Torino, Italy.  
October 2002 – April 2015.
- **Paid short-term Visitor**, CERN, Switzerland.  
May – July 2001; May – June 2004; August 2005; August 2006; August 2007; August 2009.
- **Paid Scientific Associate**, CERN, Switzerland.  
August-December 2004; January-June 2010; September 2020-June 2021.

- [Distinguished Visitor](#), Scottish University Physics Alliance (SUPA)  
February 2011.
- [Associate Member](#), Higgs Center for Theoretical Physics, University of  
Edinburgh, UK.  
September 2012 - present.
- [Senior Visiting Scientist](#) for the European Union ITN Network LHCPhe-  
noNet, NIKHEF, Amsterdam, NL.  
May-June 2013 - November 2014.
- [Full Professor](#), Department of Physics, University of Torino, Italy.  
May 2015 – present.

### 3. Teaching Experience

- [Teaching Assistant](#), State University of New York at Stony Brook, 1986  
– 1990.
  - Introductory Physics.
  - Introductory Classical Mechanics (Honors Class).
  - Elementary Particle Physics.
- [Lecturer](#), University of Torino, 1992 – 1995 and 1997 – present.
  - Introduction to Modern Physics.
  - Quantum Mechanics (for the Physics degree).
  - Quantum Mechanics (for the Mathematics degree).
  - Introductory Quantum Mechanics for the Advanced School for High  
School Teachers (SSIS).
  - Introduction to Group Theory.
  - Phenomenology of Fundamental Interactions.
  - Introductory Electromagnetism (for the Materials Sciences degree).
  - Introductory Electromagnetism (for the Chemistry degree).
  - Introductory Electromagnetism (for the Mathematics degree).
  - Introductory Physics (for Medical Sciences).
  - Introductory Physics (for Veterinary Sciences).
  - Introductory Physics (for Natural Sciences).
  - Advanced Quantum Field Theory.
  - Computing Techniques for Physics.

- Science for Democracy (Sci4Dem) (for the School of Humanities). This course, which I proposed and developed, is open to the general public and was featured in local and national news broadcasts, including the RAI popular science and news program [Geo&Geo](#) in March 2016 and in October 2018. Before 2021, the course was called *Physics for Citizens*.
- [Ph.D. and Post-Graduate Lecture Series](#).
  - “Advanced methods for the calculation of QCD scattering amplitudes”, University of Torino, [1993](#).
  - “From the Parton Model to Perturbative QCD”, University of Torino, [2000](#), [2006](#), [2007](#), [2011](#).
  - “Introduction to Perturbative QCD”, National Doctoral School in Theoretical Physics, University of Parma, [September 2002](#).
  - “Introducing Perturbative QCD for hadron collider applications”, ICTP Trieste (Italy), [December 2008](#).
  - “All-order results in Perturbative QCD”, Institute for Mathematical Sciences (IMSc), Chennai (IN), [January 2008](#), and Queen Mary University of London (UK), [February 2008](#).
  - “Long-Distance Singularities in massless gauge theories”, advanced lectures at ETH (Zurich, CH), [January 2010](#); SUPA Lectures at the Universities of Edinburgh and Glasgow, [February 2011](#); lectures for the Doctoral School in Physics and Astrophysics at the University of Torino, [March 2012](#) and [January 2015](#); lectures at the NIKHEF Theory Group, Amsterdam, [May 2013](#); lectures at WHEPP XIV, IIT Kanpur (IN), [December 2015](#); GIAN Lectures in [December 2017](#) and SPARC Lectures in [January 2020](#), at IIT Hyderabad (IN).
- [Student Supervision](#)
  - Frequent supervision of final projects for the Bachelor’s Degree in Physics.
  - Frequent supervision of Master’s Thesis for the Master’s Degrees in Physics. Former students include Prof. Rodolfo Russo ([1995](#)), now at Queen Mary University of London, Dr. Pier Monni ([2009](#)), now at CERN, Theory Department, and Prof. Lorenzo Bianchi ([2012](#)), now at the University of Torino.
  - Ph.D. Thesis advisor for Dr. Alberto Frizzo ([2001](#)), Dr. Michele Allegra ([2014](#)), Dr. Giulio Falcioni ([2015](#)), Dr. Chiara Signorile-Signorile ([2020](#)).
  - External Examiner in Ph.D. and Master’s Thesis Committees at the Universities of Parma, Milano, Utrecht, Manchester, Edinburgh, Amsterdam, Sussex and Stony Brook.

## 4. Management and Administrative Activities

- **Head Tutor** for the Master's Degree in Physics of Fundamental Interactions (2002 – 2003).
- **Member** of the Faculty Council for the Doctorate Program in Physics (2003 – 2006).
- **Member** of the Faculty Council for the Graduate School in Sciences and Advanced Technologies (2006 – 2015).
- **Coordinator** of the Orientation and Outreach Committee for the Degree Programs in Physics (2002 – 2005), in charge of activities designed to introduce the degree programs in Physics and Physics careers to high-school students, and promoting general outreach activities.
  - **Coordinator** of the outreach program “La Scienza dal Vivo” (“Live Science”) for the Physics laboratories (2002 – 2005). Working with regional authorities, the program brought high-school students to University laboratories for guided visits, involving 700 – 900 students per year.
  - **Member** of the local Joint Organizing Committee for the World Year of Physics (2004 – 2005).
  - **Promoter** of the Movie Festival “Vedere la Scienza”, Torino, Massimo Theater, April 2005.
  - **Organizer** of the “Luigi Lagrange Prize” and of the “Sergio Fubini Prize”: physics competitions for high-school students, promoting the knowledge of Physics and targeting enrolment in Physics degree programs.
- **Chairperson** of the Orientation and Outreach Committee for the Faculty of Natural Sciences of the University of Torino (2005 – 2009).
  - **Coordinator** of the outreach program “La Scienza dal Vivo” (“Live Science”) for all the Natural Sciences degree programs (2005 – 2009). Working with regional authorities, the program involved 2000 – 2500 high-school students per year.
  - **Coordinator** of the outreach programs “Three Mornings at the University” (high-school students selected on the basis of excellence in science participate in experiments in University laboratories) and “The University goes to School” (academic lectures given by University lecturers in high schools).

- **Promoter** of the Summer Orientation Program “OrientaMente” for the Faculty of Sciences and the Degree Program in Biotechnologies (July – September 2008; July 2009).
- **Coordinator** of the Master’s Degree program in Physics at the University of Torino (2015 – 2017).
- **Head** of the Theoretical Physics Section of the Department of Physics of the University of Torino (2015 – 2020).
- **Member** of the Managing Board of the Regge Center for Algebra, Geometry and Theoretical Physics (2022 – present).
- **Member** of the Advisory Board of the Mainz Institute for Theoretical Physics (MITP), Johannes Gutenberg Universität, Mainz (2023 – present).
- **Member** of the Scientific Board of the Scuola di Studi Superiori “Ferdinando Rossi” of the University of Torino (2024 – present).

## 5. Research Highlights

A brief summary of selected significant research results, in approximate chronological order.

- **Regge calculus**  
 In collaboration with Michele Caselle and Alessandro D’Adda, I constructed a first order version of Regge Calculus, with dynamical variables belonging to the Poincaré group [105]. This particular discretization of General Relativity is appropriate for the coupling of gravity to fermionic matter, and reduces to ordinary Regge calculus in the small curvature limit. Related studies of lattice gravity on a hypercubic lattice appeared in [109, 108].
- **The quark form factor**  
 Working with George Sterman, I studied evolution equations for QCD amplitudes and cross section, arising from factorisation. We derived an exact all-order perturbative expression for the renormalised quark form factor in terms of two anomalous dimensions, regulating infrared divergences with dimensional regularisation [102]. This paper introduces for the first time in perturbative QCD the use of  $d$ -dimensional evolution

equations and of the  $d$ -dimensional running coupling. Using these results, closed form expressions for the logarithm of the form factor were later derived in [78]. This paper has become a standard reference for all-order studies of infrared effects in QCD and related gauge theories.

- [Non-relativistic QCD](#)

In a collaboration led by Peter Lepage, I constructed an effective field theory for QCD in the non-relativistic limit, in the continuum and on the lattice, appropriate for the determination of the spectra and properties of heavy quarkonia [100]. The work included the determination of the relevant operators, the analysis of perturbative corrections, and a resummation of large corrections due to lattice effects. This paper has been successfully applied in a vast literature, both to lattice studies of quarkonium spectroscopy and to perturbative studies of quarkonium production and decay at colliders. It has collected more than 1000 citations in the [Google Scholar](#) database.

- [Field theory limits of string amplitudes](#)

Multiloop string techniques can be applied to the calculation of field theory scattering amplitudes, renormalisation constants and effective actions; working with Paolo di Vecchia and others, I developed these techniques [96, 95] to show how one-loop string theory amplitudes can be consistently continued off-shell in the field theory limit, how individual Feynman diagram topologies can be isolated, and the gauge chosen by string theory can be identified at the one-loop level. This paper has found widespread applications in string and brane calculations. The techniques introduced here were later developed in [91, 80, 75], including applications to scalar theories at two loops, and they were applied to effective actions in constant background gauge fields in [63]. Steps towards a complete generalisation to gluon amplitudes at two loops and beyond, in bosonic and superstring theory, were taken in [36, 28].

- [Power corrections to QCD observables](#)

Renormalon and related ‘dispersive’ techniques have been widely applied to the study of leading non-perturbative corrections to QCD cross sections. In [86], Martin Beneke, Vladimir Braun and I provided a general analysis of the phenomenology of power corrections in fragmentation processes in  $e^+e^-$  annihilation, using renormalon techniques. This paper is among the first to analyze the effect of non-inclusive corrections to renormalon-based estimates of power corrections in QCD. Further applications of these and related techniques were presented in [81, 68, 65].

- [Soft-gluon resummations beyond leading-power](#)

Soft-gluon resummations compute certain classes of contributions to QCD amplitudes and cross sections to all orders in perturbation theory. They are a widespread and very relevant tool both for the theory and the phenomenology of strong interactions. With Eric Laenen and others, I have been studying the extension of resummation techniques beyond leading power in the soft energy. We first studied a class of non-logarithmic contributions, which can be organised to all orders for all processes which are electroweak at tree level [69]. These contributions are independent of kinematics and can have a sizable impact on collider observables of phenomenological interest. They have subsequently been studied by a number of other authors. More recently, we have developed a factorisation formalism for the same observables which provides a complete organization of next-to-leading-power threshold logarithms [49, 41, 30, 29, 23]. Work to develop a full-fledged resummation formalism at this accuracy is ongoing [15], and applications for electroweak annihilation processes at NLO were studied in [22].

- [Resummation at high logarithmic accuracy](#)

In collaboration with Eric Laenen, I studied the universality properties of soft gluon resummation, mapping electroweak annihilation observables to Deep Inelastic Scattering anomalous dimensions; this led to the first explicit calculation of three-loop ( $N^3LL$ ) soft contributions to the Drell-Yan process and to Higgs boson production in the gluon fusion channel [60]. Our calculation is an important ingredient of the most precise theoretical predictions to date for these process, now being investigated experimentally at LHC. Other work related to soft gluon resummations includes [101, 62].

- [Non-perturbative corrections to jet cross sections](#)

Working with Mrinal Dasgupta and Gavin Salam, I performed a detailed study of the impact and functional dependence of the leading non-perturbative corrections to jet cross sections at hadron colliders, using both analytic methods related to renormalon techniques and Monte-Carlo simulations; we proposed experimental measurements discriminating hadronisation, underlying event and pileup corrections, by means of a study of jet radius dependence [53]. This paper is relevant for all jet studies at Tevatron and at LHC, and is widely used in this context when power-suppressed corrections are relevant.

- [Infrared poles of gauge theory amplitudes](#)

Gauge theory scattering amplitudes have been the focus of a massive research effort in the past several years, which brought forth remarkable

progress. With Lance Dixon and George Sterman, I studied the universality properties of infrared and collinear divergences for fixed-angle amplitudes in massless gauge theories, such as QCD and the maximally supersymmetric  $\mathcal{N} = 4$  Super-Yang-Mills theory (SYM) [51]. Our paper derives some exact results connecting amplitudes and anomalous dimensions in  $\mathcal{N} = 4$  SYM, one of which has already been verified in the strong coupling limit, with holographic methods. The methods developed here have led to significant progress in our understanding of the infrared structure of multi-particle amplitudes in gauge theories, some of which is described below. The colour structure of soft poles in non-abelian theories at high orders is intricate and interesting, and some organising principles were uncovered in collaboration with Anurag Tripathi and others in [13, 11]. The full infrared structure of non-abelian gauge theory amplitudes was reviewed in [9].

- [The dipole formula](#)

With Einan Gardi, I studied the constraints imposed by factorisation on the all-order expression for the soft anomalous dimension matrix governing soft singularities for arbitrary fixed-angle scattering amplitudes in massless gauge theories. The constraints lead to an ansatz expressing this matrix to all orders in terms of a sum over color dipoles, in turn proportional to the cusp anomalous dimension [48]. The ‘dipole formula’ derived in this paper is the most general existing all-order result for the infrared behaviour of gauge amplitudes. The paper furthermore provides a characterisation of all possible corrections, which fall in only two well-defined classes, starting at the three loop order, and which are currently under study. Further developments are discussed in [45, 33, 13, 11] and below.

- [High-energy amplitudes](#)

In collaboration with Vittorio Del Duca, Einan Gardi and others, I have studied the high-energy (‘Regge’) limit of gauge theory amplitudes from an infrared standpoint. I have shown that the all-order knowledge which is available on the infrared structure of fixed-angle amplitudes can be used to determine the high-energy limit beyond the naïve Regge-pole-based high-energy factorization, which breaks down beyond next-to-leading logarithmic accuracy [39, 40]. The general structure of infrared poles associated with Regge cuts in the angular momentum plane can be determined, and concrete predictions can be made for three-loop parton amplitudes in QCD [35, 31].

- [Infrared subtraction beyond NLO](#)

In collaboration with Sandro Uccirati, Paolo Torrielli and others, I am

developing a general method for the subtraction of infrared singularities in hadronic cross sections beyond NLO in QCD. Using factorisation, we provided general definitions of local soft and collinear counterterms for real radiation, valid to all orders in perturbation theory and for generic collider processes [17]. Furthermore, we are constructing a general-purpose subtraction algorithm at NNLO, ready to be interfaced with suitable event generators, with first results discussed in [18, 12]. We have now determined the full structure of the subtraction analytically for generic massless final states [5], and further refinements in the factorisation structure have been proposed [2], while the generalisation to initial-state radiation is under way.

- [Infrared divergences on the “celestial sphere”](#)

Andy Strominger and collaborators proposed that the infrared structure of scattering amplitudes could be understood in the context of flat-space holography, and thus encoded in a two-dimensional conformal field theory defined on the “celestial sphere”. I proved that this idea is realised, to all orders in perturbation theory, in the case of colour-dipole contributions to the infrared factor of non-abelian amplitudes: these can in fact be computed by means of a celestial conformal field theory of Lie-algebra-valued free bosons [10]. The challenging generalisation of this result to colour-multipole contributions described by interacting bosons is under study.

## 6. Other scientific activities.

- *Refereeing*

I have been a Referee for the following journals.

- *Acta Physica Polonica* **B**
- *Central European Journal of Physics*
- *European Physical Journal A*
- *European Physical Journal C*
- *Journal of High Energy Physics*
- *Nuclear Physics* **B**
- *Physical Review* **D**
- *Physical Review Letters*
- *Physics Letters* **B**

I have acted in a refereeing capacity for different organizations.

- [Member](#) of the international referee pool for the “Fondazione Cariparo” (a banking foundation) for the selection of research projects of excellence to be funded ([2007 – 2008](#)).
  - [Project Referee](#) for the USA National Science Foundation (Career Program and International Research Fellow Awards, [2008 – 2009](#)).
  - [Member](#) of the Scientific Council for “2I3T”, a joint venture of the University of Torino and local governments providing help to spin off economically viable companies marketing results of academic research ([2007 – 2010](#)).
  - [Expert Evaluator](#) for the Italian Ministry of Education and Research, Programs “SIR” and “Levi Montalcini”, [2012](#), [2014](#) and [2015](#).
  - [Expert Evaluator](#) of the Physics Evaluation Panel for the Research Executive Agency (REA) of the European Union, [2011-2012](#) and [2014-2019](#).
  - [Vice-Chair](#) of the Physics Evaluation Panel for the Research Executive Agency (REA) of the European Union, [2013](#) and [2020-present](#).
- *Workshop and School Organization*
    - [Organizer](#) of the workshop “Renormalons and Power Corrections”, NORDITA, Copenhagen, [August 1996](#).
    - [Coordinator](#) of the working group on resummations in QCD, in the workshop “Standard Model Physics (and more) at the LHC”, CERN, [1999](#).
    - [Organizer](#) of the “Torino Graduate School in Physics at Colliders”, third and fourth editions, Torino, [January 2008](#) and [July 2009](#).
    - [Member](#) of the International Advisory Committee for the Conferences “Amplitudes 2015”, Zurich, [July 2015](#); “Amplitudes 2017”, Edinburgh, [July 2017](#); “Amplitudes 2018”, SLAC [June 2018](#); “Amplitudes 2023”, CERN [August 2023](#); and “Amplitudes 2025”, Seoul [June 2025](#).
    - [Organizer](#) of the Workshop “Quarkonium 2019”, Torino, [May 2019](#).
    - [Organizer](#) of the Workshop and Conference “Theory Challenges in the Precision Era of the Large Hadron Collider”, Galileo Galilei Institute (GGI), Florence, [August-October 2023](#).
    - [Organizer](#) of the Workshop “High Precision for Hard Processes” (HP<sup>2</sup>), Torino, [September 2024](#).
    - [Organizer](#) of the Regge School 2025 “Physics and Society in the 21st Century”, Torino, [June 2025](#).

- *Participation in Conferences and Workshop*
  - I routinely take part and give invited talks in international conferences and workshops in theoretical high energy physics. I am regularly invited to present my work or review recent advances in my field at academic and research institutions worldwide.
  - A selection of recent presentations is available in my web page <https://www.lorenzomagnea.eu/>
  
- *Research Grants*
  - **Member** of the European Research and Training Networks: QCD-NET (1998 – 2001), Physics at Colliders (2001 – 2005), HEPTOOLS (2006 – 2009) and HIGGSTOOLS (2014 – 2018).
  - My research has been funded throughout my career by refereed Research Initiatives of the “Istituto Nazionale di Fisica Nucleare” (INFN), of which I am an Associate Scientist.
  - **Member** of competitively awarded “Research Projects of National Relevance” (PRIN) financed by the Italian Ministry of Education in 1997, 1999, 2001, 2004, 2006, 2009, 2012, 2018, 2021, 2023.
  - **Member** of the IMPACT (Innovative Methods for Particle Colliders at the Terascale) group, recipient of competitively awarded research funds from the Fondazione San Paolo (a banking foundation) and the University of Torino (2011 – 2014).
  - **Coordinator** of the project “SCI4DEM” (Science for Democracy), developing tools to counter the diffusion of fake news about science, financed by the Fondazione CRT (a banking foundation) and by the University of Torino (2019 – 2021).
  - **International PI** for the project “Perturbative QCD for Precision Physics at the LHC”, financed under the SPARC program of the Government of India, for joint research and teaching involving Indian, Italian and Dutch Universities (2019 – 2020).

## 7. Referees

The following senior scientists are familiar with my scientific work, and are available to provide information about myself if contacted at the e-mail addresses listed below.

- Prof. Michele Caselle (Università di Torino):  
[caselle@to.infn.it](mailto:caselle@to.infn.it)

- Prof. Lance Dixon (SLAC):  
[lance@slac.stanford.edu](mailto:lance@slac.stanford.edu)
- Prof. Eric Laenen (NIKHEF):  
[t45@nikhef.nl](mailto:t45@nikhef.nl)
- Prof. Peter Lepage (Cornell University):  
[gpl3@cornell.edu](mailto:gpl3@cornell.edu)
- Prof. George Sterman (SUNY at Stony Brook):  
[george.sterman@stonybrook.edu](mailto:george.sterman@stonybrook.edu)

# Lorenzo Magnea

## Publication List

- [1] L. Magnea, C. Milloy, C. Signorile-Signorile and P. Torrielli,  
in *Wittenberg 2024, Proceedings* “Loops and Legs 2024”, PoS (LL2024) 066,  
[arXiv:2407.07512 \[hep-ph\]](#),  
[“Refactorisation and subtraction”](#)
  
- [2] L. Magnea, C. Milloy, C. Signorile-Signorile, P. Torrielli and S. Uccirati,  
*JHEP* **06** (2024), 021, [arXiv:2403.11975 \[hep-ph\]](#),  
[“Strongly-ordered infrared counterterms from factorisation”](#)
  
- [3] D. Artico and L. Magnea,  
in *Crieff 2023, Proceedings* “RadCor 2023”, PoS RADCOR2023 (2024) 058,  
[arXiv:2311.02457 \[hep-ph\]](#),  
[“IBPs and differential equations in parameter space”](#)
  
- [4] D. Artico and L. Magnea,  
*JHEP* **03** (2024), 096, [arXiv:2310.03939 \[hep-ph\]](#),  
[“Integration-by-parts identities and differential equations for parametrised Feynman integrals”](#)
  
- [5] G. Bertolotti, L. Magnea, G. Pelliccioli, A. Ratti, C. Signorile-Signorile,  
P. Torrielli and S. Uccirati,  
*JHEP* **07** (2023), 140, [arXiv:2212.11190 \[hep-ph\]](#)  
[“NNLO subtraction for any massless final state: a complete analytic expression”](#)
  
- [6] G. Bertolotti, L. Magnea, G. Pelliccioli, A. Ratti, C. Signorile-Signorile,  
P. Torrielli and S. Uccirati,  
in *Ettal 2022, Proceedings* “Loops and Legs 2022”, PoS (LL2022) 056,  
[“Towards the automation of the Local Analytic Sector Subtraction”](#)

- [7] S. Pal, L. Magnea, N. Agarwal, A. Tripathi,  
in *Jatni 2020, Proceedings*, “24th DAE-BRNS High Energy Physics Symposium”, Springer Proc. Phys. 277 (2022) 253,  
[“Multiparton Webs Beyond Three Loops”](#)
- [8] L. Magnea, C. Milloy, C. Signorile-Signorile, P. Torrielli and S. Uccirati,  
in *Ettal 2022, Proceedings*, “Loops and Legs 2022”, PoS (LL2022) 075,  
[arXiv:2209.06102 \[hep-ph\]](#),  
[“Strongly-ordered infrared limits for subtraction counterterms from factorisation”](#)
- [9] N. Agarwal, L. Magnea, C. Signorile-Signorile and A. Tripathi,  
*Phys. Rept.* **994** (2023), 1, [arXiv:2112.07099 \[hep-ph\]](#),  
[“The infrared structure of perturbative gauge theories”](#)
- [10] L. Magnea,  
*JHEP* **05** (2021), 282, [arXiv:2104.10254 \[hep-th\]](#),  
[“Non-abelian infrared divergences on the celestial sphere”](#)
- [11] N. Agarwal, L. Magnea, S. Pal and A. Tripathi,  
*JHEP* **03** (2021), 188, [arXiv:2102.03598 \[hep-ph\]](#),  
[“Cwebs beyond three loops in multiparton amplitudes”](#)
- [12] L. Magnea, G. Pelliccioli, C. Signorile-Signorile, P. Torrielli and S. Uccirati,  
*JHEP*, [arXiv:2010.14493 \[hep-ph\]](#),  
[“Analytic integration of soft and collinear radiation in factorised QCD cross sections at NNLO”](#)
- [13] N. Agarwal, A. Danish, L. Magnea, S. Pal and A. Tripathi,  
*JHEP* **05** (2020), 128, [arXiv:2003.09714 \[hep-ph\]](#),  
[“Multiparton webs beyond three loops”](#)
- [14] L. Magnea, E. Maina, G. Pelliccioli, C. Signorile-Signorile, P. Torrielli and S. Uccirati,  
in *Avignon 2019, Proceedings*, “RadCor 2019”, PoS **RADCOR2019** (2019), 057, [arXiv:1912.09368 \[hep-ph\]](#),

[“Local analytic sector subtraction for final state radiation at NNLO”](#)

- [15] N. Bahjat-Abbas, D. Bonocore, J. Sinninghe Damsté, E. Laenen, L. Magnea, L. Vernazza and C.D. White,  
*JHEP*, **11** (2019), 02, [arXiv:1905.13710 \[hep-ph\]](#),  
[“Diagrammatic resummation of leading-logarithmic threshold effects at next-to-leading power”](#)
- [16] V. Del Duca and L. Magnea,  
in “Tullio Regge: an eclectic genius, from quantum gravity to computer play”,  
Eds. L. Castellani, A. Ceresole, R. D’Auria and P. Fré, World Scientific,  
[arXiv:1812.05829 \[hep-ph\]](#),  
[“The long road from Regge poles to the LHC”](#)
- [17] L. Magnea, E. Maina, G. Pelliccioli, C. Signorile-Signorile, P. Torrielli and S. Uccirati,  
*JHEP* **1812** (2018) 062, [arXiv:1809.05444 \[hep-ph\]](#),  
[“Factorisation and Subtraction beyond NLO”](#)
- [18] L. Magnea, E. Maina, G. Pelliccioli, C. Signorile-Signorile, P. Torrielli and S. Uccirati,  
*JHEP* **1812** (2018) 107, [arXiv:1806.09570 \[hep-ph\]](#),  
[“Local Analytic Sector Subtraction at NNLO”](#)
- [19] L. Magnea, E. Maina, G. Pelliccioli, C. Signorile-Signorile, P. Torrielli and S. Uccirati,  
in *St. Goar 2018, Proceedings “Loops and Legs 2018”*, PoS LL **2018**, (2018) 013.  
[“Analytic tools for IR subtraction beyond NLO”](#)
- [20] L. Magnea, E. Maina, P. Torrielli and S. Uccirati,  
in *St. Gilgen 2017, Proceedings “RadCor 2017”*, PoS RADCOR **2017** (2018) 035, [arXiv:1801.06458 \[hep-ph\]](#),  
[“Towards analytic local sector subtraction at NNLO”](#)

- [21] L. Magnea, E. Maina, P. Torrielli and S. Uccirati,  
in *St. Gilgen 2017, Proceedings* “RadCor 2017”, PoS RADCOR **2017** (2018)  
043, [arXiv:1801.06462 \[hep-ph\]](#),  
[“Factorization and subtraction”](#)
- [22] V. Del Duca, E. Laenen, L. Magnea, L. Vernazza and C.D. White,  
*JHEP* **1711** (2017) 057 [arXiv:1706.04018 \[hep-ph\]](#),  
[“Universality of next-to-leading power threshold effects for colourless final states in hadronic collisions”](#)
- [23] D. Bonocore, E. Laenen, L. Magnea, L. Vernazza and C. White,  
*JHEP* **1612** (2016) 121, [arXiv:1610.06842 \[hep-ph\]](#),  
[“Non-abelian factorisation for next-to-leading-power threshold logarithms”](#)
- [24] L. Magnea, D. Bonocore, E. Laenen, L. Vernazza and C. White,  
in *Leipzig 2016, Proceedings* “Loops and Legs 2016”, PoS LL **2016** 078,  
[“On non-abelian next-to-leading-power threshold logarithms”](#)
- [25] D. Bonocore, E. Laenen, L. Magnea, S. Melville, L. Vernazza and C. White,  
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