

Curriculum Vitae

Name: *Antonio D. Polosa*

Nationality: *Italian*

Date of birth: *13 May 1972, Bari (Italy)*

Spoken languages: *English, French*

Ph.D: *Univ. of Bari, '99*

Advisors: *Prof.s. R. Gatto (Univ. of Geneva), G. Nardulli (Univ. of Bari)*

Position: *Researcher, INFN--Roma*

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Previous Positions:

- Dec. 97 - Nov. 99: *Visiting ph.d. student* (Univ. of Geneva)
- Dec. 99 - Nov 01: *Eurodaphne Post-Doc* (Univ. of Helsinki)
- Dec. 01 - Nov. 03: *Marie Curie Fellow* (CERN-TH)
- Dec. 03 - Jun. 04: *Post-Doc* (LAPP-TH-Annecy)
- Jun. 04 - Oct. 04 : *Senior Grant* (Centro E. Fermi, Roma)
- Nov. 04 - Nov. 05: *Associate Professor 'Rientro Cervelli'* (Univ. of Bari)
- Dec. 05: *Researcher* at the INFN Roma I, Dip. Fisica 'La Sapienza'

Research experience:

- Heavy Meson Physics (Quark models for exclusive decays of B and D mesons)
- Montecarlo Methods for Hadron Collisions (Coauthor of **ALPGEN**)
- Heavy Ion Physics (J/Ψ Suppression, Strangeness Enhancement, Recombination Models, Jet Quenching and Medium Effects)
- Hadron Spectroscopy (Scalar Mesons and the newly discovered hadrons X,Y,Z)
- Some experience in Lattice Gauge Theories, Analysis of Biological Time Series Signals, Cellular Automata

Teaching Experience:

- Teaching assistance in Quantum Mechanics (Univ. of Helsinki)
- Postgraduate courses: Renormalization, Effective Field Theories, Group Theory
- Recent Teaching: Physical Applications of Group Theory (Univ. of Bari), Gauge Theories (Univ. of Roma I)

Referee Activity:

- Rev. **D**, Phys. Lett. **B**, Eur. Phys. Journ. **C** and Phys. Rev. Lett.

Other Scientific Charges:

- I am one of the promoters of the INFN specific project on the theoretical study of Quark-Gluon-Plasma in Italy (approved by INFN 2005-6)

Some selected papers:

- *The Lattice Schrodinger functional and the background field effective action*,
Phys. Lett. **B392**: 177-181, 1997 -with P. Cea and L. Cosmai
- *A Constituent quark meson model for heavy meson processes*,
Phys. Rev. **D58**: 034004, 1998 - with A. Deandrea, N. Di Bartolomeo, R. Gatto, G. Nardulli
- *Multiscale analysis of blood pressure signals*,
Phys. Rev. **E60**: 1088, 1999 - with A. Marrone, G. Scioscia, S. Stramaglia, A. Zenzola
- *$B \rightarrow \rho\pi$ decays, resonant and nonresonant contributions*,
Phys. Rev. Lett. **86**: 216-219, 2001 - with A. Deandrea
- *The s anti- s and K anti- K nature of $f_0(980)$ $D(s)$ decays*,
Phys. Lett. **B502**: 79-86, 2001 - with A. Deandrea, R. Gatto, G. Nardulli, N.A. Tornqvist
- *Magnetic order in the Ising model with parallel dynamics*,
Phys. Rev. **E64**: 057103, 2001 - with E.N.M. Cirillo and F. Nardi
- *ALPGEN, a generator for hard multiparton processes in hadronic collisions*,
JHEP 0307: 001, 2003 - with M. Mangano, M. Moretti, F. Piccinini, R. Pittau
- *b anti- b final states in Higgs production via weak boson fusion at the LHC*,
Phys. Lett. **B556**: 50-60, 2003 - with M. Mangano, M. Moretti, F. Piccinini, R. Pittau
- *On the Mass of the $D(s)(0+, 1+)$ system*,
Phys.Rev **D68**: 097501, 2003 -with A. Deandrea and G. Nardulli
- *J/ψ absorption in heavy ion collisions I & II*,
Nucl. Phys. **A741**: 273-286, 2004 and Nucl. Phys. **A748**: 209-225, 2005,
-with L. Maiani, F. Piccinini, V. Riquer
- *Observation potential for $\eta(b)$ at the Tevatron*,
Phys. Rev. **D70**: 054014, 2004 - with F. Maltoni
- *A New look at scalar mesons*,
Phys. Rev. Lett. **93**: 212002, 2004 - with L. Maiani, F. Piccinini, V. Riquer
- *Higgs boson self-couplings at the LHC as a probe of extended Higgs sectors*,
JHEP 0502: 024, 2005 - with S. Moretti, M. Moretti, F. Piccinini, R. Pittau

- *Diquark-antidiquarks with hidden or open charm and the nature of X(3872)*,
Phys. Rev. **D71**: 014028, 2005 - with L. Maiani, F. Piccinini, V. Riquer
- *Four quark interpretation of Y(4260)*,
Phys. Rev. **D72**: 031502, 2005 - with L. Maiani, F. Piccinini, V. Riquer
- *Counting valence quarks at RHIC and LHC*,
hep-ph/0606217 - with L. Maiani, V. Riquer, C.A. Salgado
- *Jet Shapes in Opaque Media*,
hep-ph/0607295 - with C.A. Salgado
- *Towards the European strategy for particle physics: the Briefing Book*,
hep-ph/0609216 - with T. Akesson et al.

A complete list of publications can be found on SPIRES/arXiv.