

SHORT CURRICULUM VITAE

Personal Data

Gian Luigi Granato, born in Bologna, Italy, on August 21th 1962.

Present position: since 2001 I am "Astronomo Associato" at Istituto Nazionale di AstroFisica (INAF). Since 2008 at "Osservatorio Astronomico di Trieste", previously at "Osservatorio Astronomico di Padova".

Previous positions: from 1996 to 2001 I was "Ricercatore Astronomo" at "Osservatorio Astronomico di Padova".

Curriculum studiorum

1992, PhD, International School for Advanced Studies, "SISSA", Trieste, Italia

1990, Master, International School for Advanced Studies, Trieste, Italia

1988, Degree in Astronomy cum laude, University of Padova, Italia.

Teaching

From 1997 to 2007, I regularly gave PhD courses at SISSA in Trieste on "Radiative processes in Astrophysics" and "Galaxy Formation", and occasionally in others italian and foreign institutes (University of Padova, University of Trieste, ESO-Santiago, INAOE Puebla).

I gave lectures at a few international schools of Astrophysics

I officially supervised three "tesi di Laurea" (Universita' di Padova) and five PhD thesis (four at SISSA-Trieste and one at INAOE Puebla).

Others

From 2005 to 2008 I was the italian coordinator of MAGPop, Marie Curie Research Training Network, funded by the 6th Framework Programme of the EU (see <http://magpop.elte.hu/>).

Since 1995 I regularly acted as referee for MNRAS, ApJ and A&A.

Since 2006 I am involved in several outreach activities, including public talks.

Scientific interests (main)

- *Galaxy formation and evolution*: I am first author of a novel semi-analytic model (since Granato et al 2001, 2004), which has been the first to ascribe a fundamental role to the reciprocal interactions between the development of the spheroidal component of galaxies and the nuclear activity, due to the growing super-massive black hole (the so called AGN feedback). This model is able to reproduce the anti-hierarchical behavior of these populations within a hierarchical development of dark matter structures. Moreover, I significantly contribute to test more classical semi-analytic models (e.g. Granato et al 2000).

- *Population synthesis with dust reprocessing in different environments*: I am one of the two main authors of the well known model GRASIL (since Silva et al 1998, Granato et al 2000), which is still considered the state of the art to reproduce and interpret observations from far ultraviolet to infrared-radio of galaxies in any evolutionary stage. GRASIL has been interfaced with several semi-analytic models of galaxy formation.

- *Torii in active galactic nuclei* (AGN; since Granato et al 1994): I am the first author of one of the first radiative models for torii in AGNs. This model has been widely exploited to constrain the main geometrical and physical parameters of these structures, which are the fundamental ingredients of unified model for AGNs.

On these topics, I am author of 83 refereed papers, mainly theoretical-interpretative in nature. As of 01.07.2010, according to Astrophysical Data System (ADS; <http://adsabs.harvard.edu/abstract>) these papers have been quoted 4530 times in literature and my impact and productivity H-index is 33.

I personally presented my scientific results with talks, sometimes invited, in about 40 international conferences or meetings.

List of the ten most cited papers:

- 1 - Granato, G.L., De Zotti, G., Silva, L., Bressan, A., Danese, L., 2004, ApJ, 600, 580, "A physical model for the co-evolution of QSOs and of their spheroidal hosts" (452 citations)
- 2 - Silva L., Granato G. L., Bressan A., Danese L., 1998, ApJ, 509, 103, "Modeling the Effects of Dust on Galactic Spectral Energy Distributions from the Ultraviolet to the Millimeter Band" (428 citations)
- 3 - Baugh, C. M., Lacey, C. G., Frenk, C. S., Granato, G. L., Silva, L., Bressan, A., Benson, A. J., Cole, S., 2005, MNRAS, 356, 1191, "Can the faint submillimetre galaxies be explained in the cold dark matter model?", (237 citations)
- 4 - Granato, G.L., Danese, L., 1994, MNRAS, 288, 235, "Thick Tori around Active Galactic Nuclei - a Comparison of Model Predictions with Observations of the Infrared Continuum and Silicate Features" (229 citations)
- 5 - Granato, G. L., Silva, L., Monaco, P., Panuzzo, P., Salucci, P., De Zotti, G., Danese, L., 2001. MNRAS, 324, 757, "Joint formation of QSOs and spheroids: QSOs as clocks of star formation in spheroids", (206 citations)
- 6 - Marigo, P., Girardi, L., Bressan, A., Groenewegen, M. A. T., Silva, L., Granato, G. L., 2008, A&A, 482, 883, "Evolution of asymptotic giant branch stars. II. Optical to far-infrared isochrones with improved TP-AGB models", (196 citations)
- 7 - Granato, Danese, L., Franceschini, A., 1997, ApJ, 486, 147, "Thick Tori around Active Galactic Nuclei: The Case for Extended Tori and Consequences for Their X-Ray and Infrared Emission", (190 citations)
- 8 - Coppin, K., et al (56 coautori), 2006, MNRAS, 372, 1621, "The SCUBA Half-Degree Extragalactic Survey - II. Submillimetre maps, catalogue and number counts" (167 citations)
- 9 - Jaffe et al. (23 coautores) "The central dusty torus in the activenucleus of NGC 1068", 2004, Natur, 429, 47J, (159 citations)
- 10 - Granato, G. L., Lacey, C. G., Silva, L., Bressan, A., Baugh, C. M., Cole, S., Frenk, C. S., 2000, ApJ, 542, 710G, "The Infrared Side of Galaxy Formation. I. The Local Universe in the Semianalytical Framework" (141 citations).