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**10 MIGLIORI PUBBLICAZIONI anni 2008-2012 dei
MEMBRI del COLLEGIO DOCENTI
del dottorato di ricerca in
ASTRONOMIA-ASTRONOMY, ASTROPHYSICS AND SPACE SCIENCE**

Marco MERAFINA

1. MERAFINA M, BISNOVATYI-KOGAN G.S, TARASOV S.O., A brief analysis of self-gravitating polytropic models with a non-zero cosmological constant. *Astronomy & Astrophysics*, 541, A84 (2012).
2. MERAFINA M., BISNOVATYI-KOGAN G.S., Relativistic stellar clusters with anisotropic momentum distribution. Proceedings of the twelfth MARCEL GROSSMANN MEETING ON GENERAL RELATIVITY. PARIS (FRANCE), JULY 12-18, SINGAPORE: World Scientific Publishing, Vol C, 2110 (2012)
3. BISNOVATYI-KOGAN G.S., CHERNIN A., MERAFINA M., Dark energy and key physical parameters of clusters of galaxies. Proceedings of Vulcano Workshop, Vulcano (2012)
4. BISNOVATYI-KOGAN G.S., CHERNIN A., MERAFINA M., Galaxy clusters in presence of dark energy. Proceedings of Sochi Conference, Sochi (2012)
5. IORI M., RUSS J., MERAFINA M., ARSLAN E., DENIZLI H., KAYA M., YILMAZ A., Study of a prototype for a new concept of an EAS detector. International Foundation HFSJG, Activity Report (2011).
6. BISNOVATYI-KOGAN G.S., MERAFINA M., VACCARELLI M.R., Spherically symmetric stellar clusters with anisotropy and cutoff energy in momentum distribution: II. The relativistic regime. *Astrophysical Journal*, 709, 1174 (2010)
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8. MERAFINA M., BISNOVATYI-KOGAN G.S., VACCARELLI M.R., Relativistic stellar clusters: equilibrium models with anisotropic momentum distribution and dynamic and thermodynamic stability of isotropic models. AIP Conferences Proceedings, 1206, 399 (2009)
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- MERAFINA M., ALBERTI G., Self-gravitating systems of Fermions with anisotropy and cutoff energy in distribution function. I. The Newtonian regime.

Submitted to Astrophysical Journal

- BISNOVATYI-KOGAN G.S., DONNARI M., MERAFINA M. - Galaxy clusters in presence of dark matter: a kinetic approach.

submitted to Astronomy & Astrophysics

- ARGUELLES C.R., MERAFINA M., RUFFINI R., Self-gravitating Fermionic dark matter and galactic structures: constraining the model with NGC205.

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