

Preliminary results from the LAZIO-Sirad experiment on board of the International Space Station

F. Altamura^a, R. Bencardino^a, V. Bidoli^a, L. Bongiorno^a, M. Casolino^a,
M.P. De Pascale^a, M. Minori^a, P. Picozza^a,
D. Aisa^b, A. Alvino^b, S. Ascani^b, P. Azzarello^b, R. Battiston^b, S. Bizzaglia^b, M. Bizzarri^b,
S. Blasko^b, L. Di Masso^b, G. Chiocci^b, D. Cosson^b, G. Esposito^b, S. Lucidi^b, A. Papi^b,
V. Postolache^b, S. Rossi^b, G. Scolieri^b, M. Ionica^b,
A. Franceschi^c, S. Dell’Agnello^c, M. Ricci^c, C. Falcone^d, S. Tassa^d,
A. Kalmikov^e, A.V. Popov^e, A. Abramov^e, M.C. Korotkov^e, A.M. Galper^e, A. Ivanova^e,
L.Conti^f, V.Sgrigna^f, C.Stagni^f, A.Buzzi^f, D. Zilpimiani^g, A.Pontetti^h, L.Valentini^h

(a) *Physics Department of "Tor Vergata University"*

and Roma II Section of INFN, Via della Ricerca Scientifica 1, 00133 Roma, Italy

(b) *Physics Department and INFN Section of Perugia, Via Pascoli, 06100 Perugia, Italy*

(c) *INFN, Laboratori Nazionali di Frascati, Via E. Fermi 40, I-00044 Frascati, Italy*

(d) *Nergal S.r.l. Via Baldanzellu 8, 00155 Roma, Italy*

(e) *Moscow Engineering and Physics Institute, Kashirskoe Shosse 31, RU-115409 Moscow, Russia*

(f) *Physics Department of "Roma III University" Via della vasca navale 84, 00146 Roma, Italy*

(g) *Institute of geophysics, Georgian Academy of Science (GAS) and National Space agency of Tbilisi, Georgia*

(h) *Ferrari BSN, Localit Miola 100, 67063 Oricola (AQ), Italy*

Presenter: M. Casolino (casolino@roma2.infn.it), ita-casolino-M-abs2-sh35-poster

The experiment LAZIO-Sirad was placed on board the International Space Station (ISS) with a Progress cargo on the beginning of March 2005. It was operational as part of the "Eneide" mission for 10 days from April the 17th 2005. The experiment aimed to study the radiation and magnetic environment on board the ISS with two devices: the LAZIO detector, built for the mission and the Sileye-3/Alteino telescope fitted with special multimaterial shielding tiles for the occasion. In this work we report of the preliminary results of the mission.