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## Search for neutrino bursts from gravitational stellar collapses with LVD: update to 2007

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### Abstract content

The Large Volume Detector LVD (Gran Sasso National Laboratory, Italy) is a neutrino scintillator observatory monitoring the Galaxy since 1992, searching for low energy neutrino bursts from gravitational stellar collapses. We present the status of the detector that reached its final active mass of 1000 t in 2001. No candidates have been detected over all the fifteen years of observation: the resulting 90% c.l. upper limit to the rate of gravitational stellar collapses in the Galaxy will be presented.

### If this papers is presented for a collaboration, please specify the collaboration

The LVD collaboration

### Summary

### Reference

Proceedings of the 30th International Cosmic Ray Conference; Rogelio Caballero, Juan Carlos D'Olive, Gustavo Medina-Tanco, Lukas Nellen, Federico A. Sánchez, José F. Valdés-Galicia (eds.); Universidad Nacional Autónoma de México, Mexico City, Mexico, 2008; Vol. 5 (HE part 2), pages 1425-1428

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