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Ricerca di Particelle a Lunga Vita Media nel rivelatore ATLAS

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A number of extensions of the Standard Model result in neutral and weakly-coupled particles that decay to multi hadrons or multi leptons with macroscopic decay lengths. These particles with decay paths that can be comparable with ATLAS detector dimensions represent, from an experimental point of view, a challenge both for the trigger and for the reconstruction capabilities of the ATLAS detector. We will present first results from the searches performed by the ATLAS detector using data collected in the 2010 LHC run, and the analysis strategies and limits on the production of such long-lived particles that can be achieved with the statistic that ATLAS expects to collect in 2011/2012.

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