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Novel signals in unparticle physics

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Phenomenology of the notion of an unparticle U , recently perceived by Georgi, to describe a scale invariant sector with a non-trivial infrared fixed point at a higher energy scale is explored in details. Behaving like a collection of d_U (the scale dimension of the unparticle operator $calO_U$) invisible massless particles, this unparticle can be unveiled by measurements of various energy distributions for the processes $Z \rightarrow f\bar{f}$ U and $e^-e^+ \rightarrow \gamma$ U at e^-e^+ colliders, as well as mono-jet production at hadron colliders. We also study the propagator effects of the unparticle through the Drell-Yan tree level process and the one-loop muon anomaly.

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