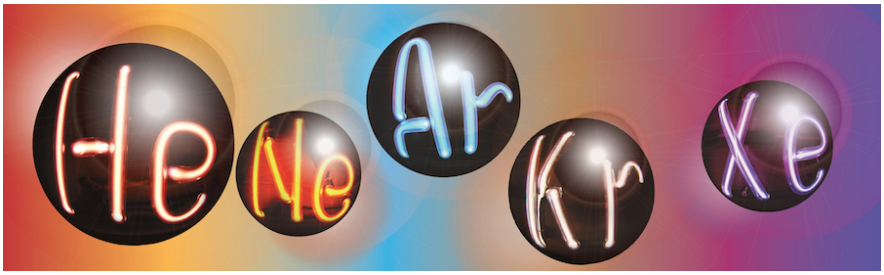

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Particle Dark Matter searches, the next generation

Wednesday, 21 September 2022 09:15 (30 minutes)

The cosmological Dark Matter particle remains as elusive as ever. Experiments looking for signals from direct interactions of galactic Dark Matter particles in detector targets have so far ruled out only a small number of theoretical possibilities within the vast parameter space Dark Matter could be found in. To probe unexplored regions in parameter space for signs of these particles, we continue to re-define what is possible in terms of detector size, energy threshold, and radio-purity.
In this contribution, we look at the role of noble gases in shaping current and upcoming detector generations, and at the role of these detectors in the wider field.

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