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Dark Matter Hunting in 2021 –How do you look for something when you don't know what it is?

Monday, 28 June 2021 12:00 (50 minutes)

The Search for clues as to the nature of Dark Matter continues in more varied and novel ways than ever before and has never been more challenging nor more stimulating. In this talk I will describe a variety of approaches that have been worked on over the past years, focusing shamelessly on those I have been involved in personally. We can learn about dark matter through observations of dwarf galaxies, by trying to explain anomalies at particle physics experiments (both collider and direct detection experiments), and also by looking at the impact of the dark sector on relics left over from the big bang in the form of nuclei and gravitational waves. I will also discuss some of the other physics which may emerge along the way and briefly comment on what we can expect from the future.

Presenter: FAIRBAIRN, Malcolm (King's College London)

Session Classification: Dark Universe / Astro-particles