

# Fundamental physics in the cosmos: The early, the large and the dark Universe



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## Algebraic properties of the monopole formula

*Thursday 28 September 2017 15:00 (20 minutes)*

In this talk, I will discuss how the two geometric notions “fan” and “monoid” can be very fruitful for the understanding of the Coulomb branch Hilbert series (the monopole formula) for 3d  $N=4$  gauge theories. After a brief reminder of the monopole formula, I will introduce the matter fan and reorganise the monopole formula accordingly. I then discuss the resulting algebraic properties and their implications.

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