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Extraordinary Claims: the 0.000029% Solution

Friday, 8 September 2017 17:00 (30 minutes)

Extraordinary claims require extraordinary evidence. The $p < 0.000029\%$ criterion used in HEP and astro-HEP does not appear adequate to cover all experimental situations. The seminar will start with a short history of anomalies found in HEP data and their resolution, and then focus on the statistical problem of defining a proper discovery level for new phenomena and on the non-trivial issues it entails. The seminar will be in part based on this recent article: Extraordinary claims: the 0.000029% solution

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