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Supersymmetry Breaking Triggered by Monopoles

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After briefly reviewing the insights of Seiberg and Witten (1994) which provide a low-energy description of $N = 2$ SUSY theories featuring massless monopoles, we investigate $N = 1$ supersymmetric gauge theories where monopole condensation triggers supersymmetry breaking in a metastable vacuum. The low-energy effective theory is an O’Raifeartaigh-like model of the kind investigated recently by Shih where the R-symmetry can be spontaneously broken.

Presenter: Dr CURTIN, David (C.N. Yang Institute for Theoretical Physics, Stony Brook)

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