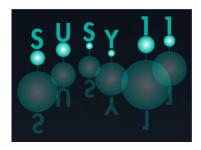
## **Supersymmetry 2011 (SUSY11)**



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## Progress in the Gauge Theory with Spontaneously Broken N=2 Supersymmetry

Sunday, 28 August 2011 14:30 (25 minutes)

We summarize the recent progress in the gauge theory with spontaneously broken N=2 supersymmetry. We consider the low energy processes described by the N=2 supercurrent on its partially (to N=1) and spontaneously broken tree vacuum and the attendant Nambu-Goldstone fermion (NGF), which the presence of the electric and magnetic Fayet-Iliopoulos (FI) terms is responsible for. We show suppression of amplitudes decaying into the NGF as its momentum becomes small.

By invoking mechanism which simulates that of the BCS/NJL in superconductivity/chiral symmetry, we consider the possibility that the N=1 supersymmetry is further broken to N=0.

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