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Spontaneous Breaking of Supersymmetry in the Wess-Zumino Model

Exact unbroken supersymmetry implies that particles and their superpartners would have the same mass and therefore it should be able to recreate them in high energy particle accelerators. However, the lack of evidence for the existence of this superpartners suggests that if nature is, in fact, supersymmetric it must be spontaneously broken so the superpartners become much heavier than their corresponding particles. In this poster, the conditions for spontaneous breaking of supersymmetry is discussed in the Wess-Zumino model.

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Author: GARCIA SANDOVAL, Diana (Universidad Nacional de Colombia)

Presenter: GARCIA SANDOVAL, Diana (Universidad Nacional de Colombia)

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