

## HIGH ENERGY PHYSICS AND TRIANGULATED CATEGORIES

*Yu.M. Malyuta, T.V. Obikhod*

Institute for Nuclear Research,  
Nat. Acad. of Sci. of Ukraine  
(47, *Prospect Nauki, Kyiv 03068, Ukraine;*  
*e-mail: obikhod@kinr.kiev.ua*)

### S u m m a r y

Superstring theory is applied to construct the Minimal Supersymmetric Standard Model (MSSM). The mass spectrum, partial widths, and production cross sections of superpartners are calculated. This approach gives specific predictions for superpartner searches at the LHC.