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Updates on SModelS

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The software framework SModelS, which has already been presented at the ACAT 2016 conference, allows for a very fast confrontation of arbitrary BSM models exhibiting a Z2 symmetry with an ever growing database of simplified models results from CMS and ATLAS. In this talk we shall present its newest features, like the extension to include searches for heavy stable charged particles (HSCPs), or the ability to combine the results from several signal regions, exploiting the simplified likelihood framework introduced by CMS. Also, the database has been greatly extended; it now comprises almost 3000 individual results from close to 100 individual analyses. Finally, we shall also discuss ongoing developments, like the use of neural networks to further speed up the software, and the extension to an even wider set of experimental signatures.

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