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SOFT WALLS: AN ALTERNATIVE SOLUTION TO THE ELECTROWEAK HIERARCHY

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Soft walls are alternative solutions (to RS ones) to the hierarchy problem in warped extra dimensions. Soft walls are generic models where extra scalars are propagating in the bulk and back react on the metric. They replace IR brane by a curvature singularity. Soft walls can provide very peculiar and unambiguous phenomenological features since KK modes (separated from the zero mode by a mass gap) can be very close to each other and a few of them be produced at LHC. In the continuous limit they describe unparticles. Electroweak breaking and bounds from electroweak constraints will be presented.

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Classification de Session: Standard Model and beyond