

Sports, Science and Technology of Japan; the Natural Sciences and Engineering Research Council of Canada; the National Science Council of the Republic of China; the Swiss National Science Foundation; the A.P. Sloan Foundation; the Bundesministerium für Bildung und Forschung, Germany; the Korean Science and Engineering Foundation and the Korean Research Foundation; the Science and Technology Facilities Council and the Royal Society, UK; the Institut National de Physique Nucléaire et Physique des Particules/CNRS; the Russian Foundation for Basic Research; the Comisión Interministerial de Ciencia y Tecnología, Spain; the European Community's Human Potential Programme; the Slovak R&D Agency; and the Academy of Finland.

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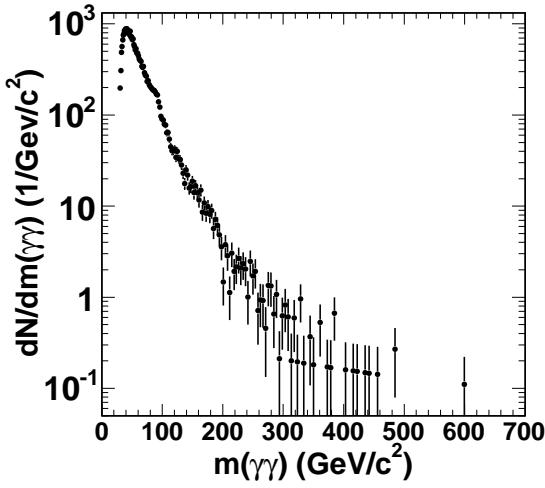


FIG. 1: The diphoton invariant mass distribution of events for both CC and CP channels, histogrammed in bins of approximately one unit of calorimeter mass resolution. The enhancement near $90 \text{ GeV}/c^2$ is due to misidentified Z boson decays to electrons in the CP sample.

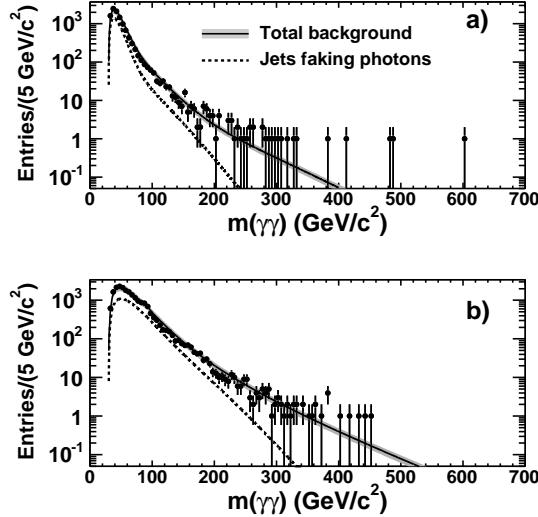


FIG. 2: The mass distribution in the CC (a) and CP (b) signal regions with the *a priori* background overlaid. The points are the data. The dotted line shows the jets which fake photons as predicted from the photon-like jet sample, and the solid line shows this background plus the DIPHOX SM diphoton distribution. The grey band shows the uncertainty on the total background. This background is not used in setting limits.

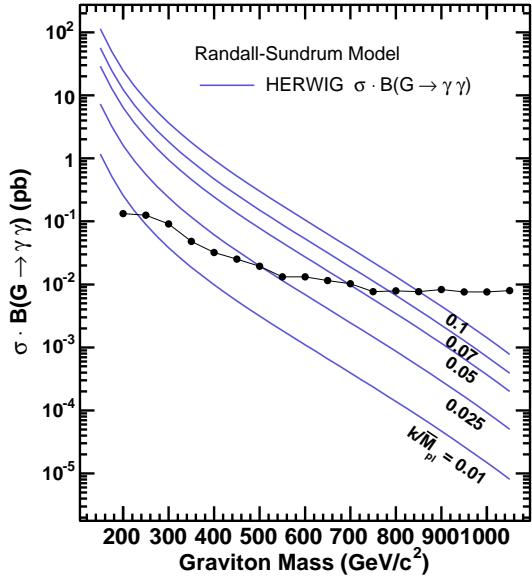


FIG. 3: The 95% C.L. upper limit on the production cross section multiplied by branching fraction of an RS model graviton decaying to diphotons ($\sigma \cdot \mathcal{B}(G \rightarrow \gamma\gamma)$), as a function of graviton mass. Also shown are the predicted ($\sigma \cdot \mathcal{B}$) curves for $k/\bar{M}_{Pl} = 0.01, 0.07, 0.05, 0.025$ and 0.1 .

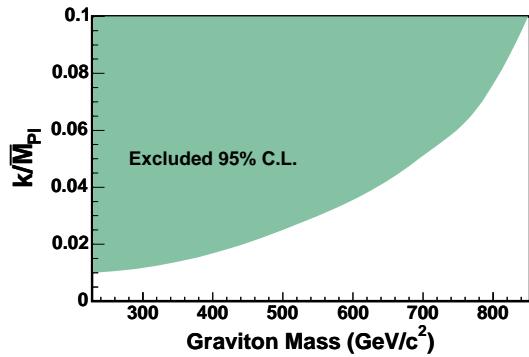


FIG. 4: The 95% C.L. excluded region in the plane of k/\bar{M}_{Pl} and graviton mass.