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Mass Constraints on Fourth Generation of Standard Model Fermions ENRIQUE RAMIREZ-HOMS, University of Texas at El Paso, LEO BEL-LANTONI, Fermi National Accelerator Laboratory, JENS ERLER, Departamento de Fisica Teorica, Instituto de Fisica, Universidad Nacional Autonoma de Mexico — Current experimental bounds on fourth-generation, standard model fermion masses are revisited. Assuming a fourth generation, we cast uniformly distributed masses for four fermions and determine a probability density function based on consistency with the electroweak oblique parameters, S, T, and U, convoluting over Higgs masses. Recent TeVatron combination limit on M_h in the fourth generation scenario is used and a probability density function for the four fermions is obtained.

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