Measurement of the Top Quark Mass at D0 Using the Matrix-Element Method in the Dilepton Channel ALEXANDER GROHSJEAN, LMU, Munich, D0 COLLABORATION — We report on the measurement of the top quark mass using candidates in the dilepton final state. For each event, a probability based on the differential cross section for production is calculated as a function of the top mass. The top mass is extracted by maximizing a likelihood constructed as the product of the single event probabilities. The measurement is based on 1 fb^{-1} of data.

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