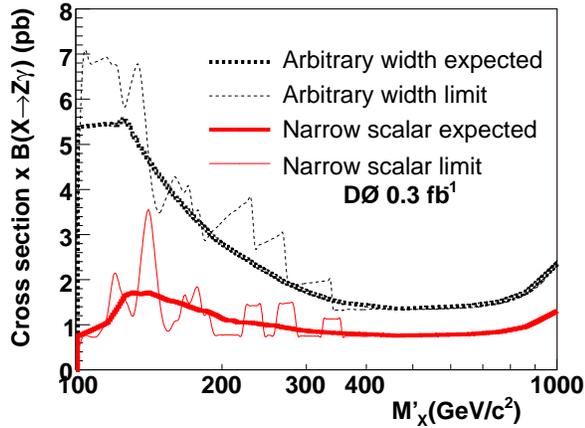


The limits on the production of  $Z\gamma$  resonant states published by the D0 collaboration in 2006 [1] require a correction by a factor of two. While preparing a new result [2] with a larger data set and improved techniques, we discovered an error that resulted in an underestimate of the limits on  $Z\gamma$  production. This error arose from double counting in the limit calculation when the two decay channels were combined. The corrected limits on  $\sigma(p\bar{p} \rightarrow X) \times B(X \rightarrow Z\gamma)$  range from 0.8 – 7.0 pb at 95% Confidence Level (C.L.) for  $Z\gamma$  states with invariant masses between 100  $\text{GeV}/c^2$  and 1000  $\text{GeV}/c^2$ . Figure 1 shows a corrected version of the curves shown in Figures 4 and 5 of the original paper.

FIG. 1: The expected and observed cross section times branching fraction 95% C.L. limit for a scalar  $X$  decaying into  $Z\gamma$  as a function of  $M'_X$  for a narrow scalar (red) and one of arbitrary width (black).



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- [1] V. M. Abazov *et al.*, (D0 Collaboration), Phys. Lett. B **641**, 415 (2006).  
 [2] V. M. Abazov *et al.*, (D0 Collaboration), ‘Search for a scalar or vector particle decaying into  $Z\gamma$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV’, submitted to Phys. Lett. B.