## CMS Simulation 2012, $\sqrt{s} = 8 \text{ TeV}$ 10 againstElectronLooseMVA4 againstElectronMediumMVA4 againstElectronTightMVA4 againstElectronVTightMVA4 10<sup>-1</sup> 10<sup>-2</sup> $Z \rightarrow ee$

15

20

10

Fake-rate

10<sup>-3</sup>

Num. reconstructed Vertices

30

25