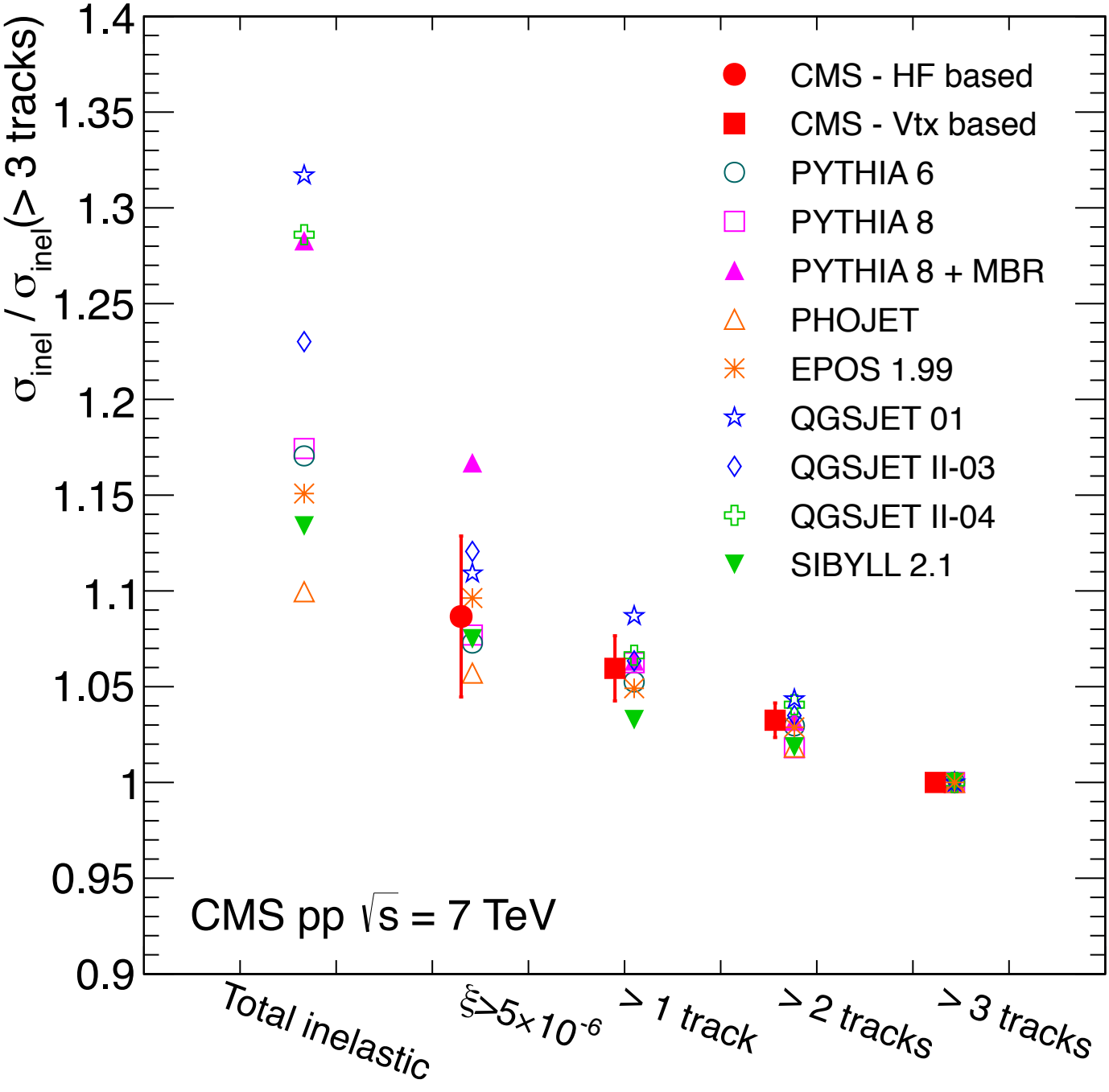
$\sigma_{inel} / \sigma_{inel}(> 3$ tracks)
1.4
1.35
1.3
1.25
1.2
1.15
1.1
1.05
1
0.95
0.9
CMS - HF based
CMS - Vtx based
PYTHIA 6
PYTHIA 8
PYTHIA 8 + MBR
PHOJET
EPOS 1.99
QGSJET 01
QGSJET II-03
QGSJET II-04
SIBYLL 2.1
CMS pp $\sqrt{s}$ = 7 TeV
Total inelastic
$\xi > 5\times10^{-6}$
> 1 track
> 2 tracks
> 3 tracks