G12 Analysis Checklist

March 22, 2016

By checking the boxes below, I hereby confirm that I understood and applied the procedures in accordance with the g12 analysis note. I also understand that if a procedure in the analysis is not done in accordance with the g12 analysis procedures, the box will remain unchecked and a separate analysis procedure is required to be described in an individual analysis note.

- Used PART bank reconstruction for the analysis. EVNT was NOT used. ☑

- Momentum corrections as described in the g12 note. ☐

- Beam energy correction as described in the g12 note ☐

- Inclusive Good run list as described in table 7. Individual analysis may use a subset of it. ☐

- Target density and its uncertainty as described in the g12 note ☐

- Photon flux calculation procedure as described in the g12 note ☐

- Lower limit for the systematic uncertainty of normalized yield is 5.7% ☐

- Analysis uses polarization ☐

  - – Photon polarization calculation procedure as described in the g12 note ☐

- Systematic uncertainty of the photon polarization as described in the g12 note. ☐
Processing of MC data

  - – gsim parameters ☐

- • – gpp smearing parameters ☐
- • – DC efficiency map ☐

Analysis uses Electro-magnetic Calorimeter information

- • – EC knockout ☐

- – Minimal TOF knockout ☐

- – Lepton ID is approved as Di-lepton ID. For single lepton the cuts should be tighter. ☐