

Asimov comparisons with different dcp values

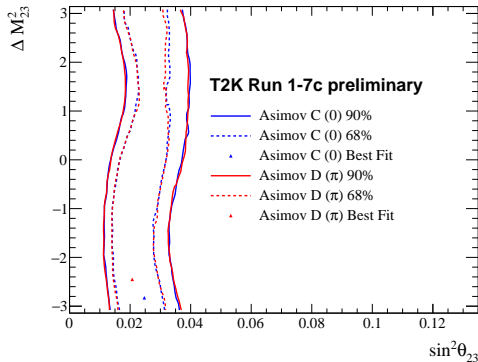
Patrick Dunne - Imperial College London

Overview

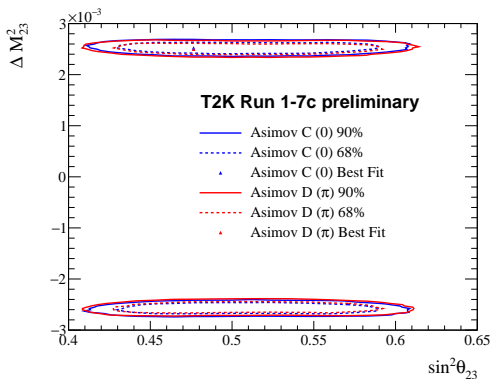
- ▶ Asked to study three new Asimov points by OA
- ▶ All based on point 1/A but with different values of dcp (see below)
- ▶ 1M steps generated for each point woRC

| Set | A | C | D | E |
|-----------------------|----------|---|-------|-----------------|
| $\sin^2(\theta_{12})$ | 0.304 | | | |
| $\sin^2(\theta_{13})$ | 0.0217 | | | |
| $\sin^2(\theta_{23})$ | 0.528 | | | |
| Δm_{12}^2 | 7.35e-05 | | | |
| Δm_{23}^2 | 0.002509 | | | |
| δ_{CP} | -1.601 | 0 | π | $\frac{\pi}{2}$ |

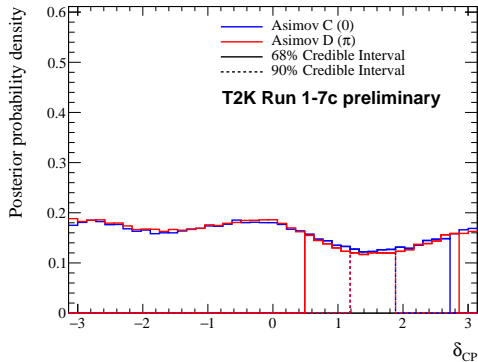
CP conserving sets - appearance parameters



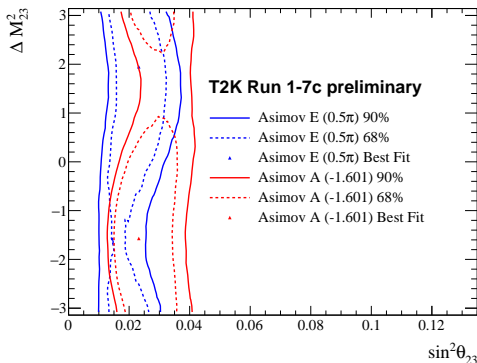
CP conserving sets - disappearance parameters



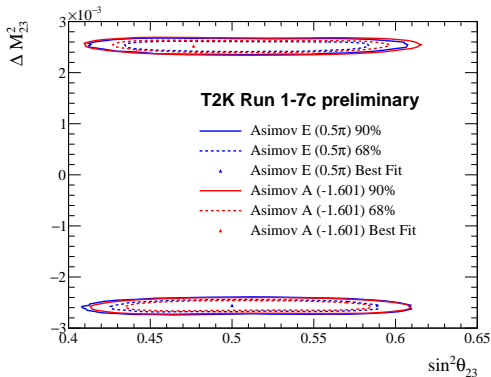
CP conserving sets - dcp



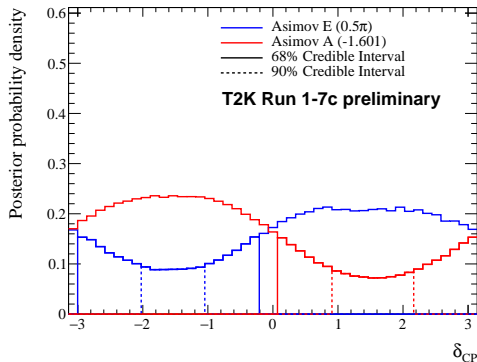
CP violating sets - appearance parameters



CP violating sets - disappearance parameters



CP violating sets - dcp



- ▶ Little difference between CP conserving asimovs
- ▶ CP violating Asimovs show tighter exclusions for -1.601 than π by 2
- ▶ wRC being processed now