ER2201 Session Delay Closures

October 29, 2024

Figs. 3 and 4 show closure delay distributions over 5.5 hours and histograms of absolute magnitudes for the multi-band and single-band delays.

The closure delay calculations of the total multi-band and single-band delays fail for EVY, EMY, ESY, ETY, MSY, MTY, MVY, SVY, TVY triangles. However, the delay closures for triangles EMV, ESV, ETV, EMS, EMT, MSV, MTV demonstrate good behavior. Figs. 5 and 6 show the total mbd and sbd closures for for $|\tau| < 500ps$ and $|\tau| > 500ps$ separately.

The closures are calculated for the baseline triangles when all the tree scans are available. The available times for each baseline are shown in Fig. 1.

The legend for colored dots in the closure delay distributions is shown in Fig. 2.
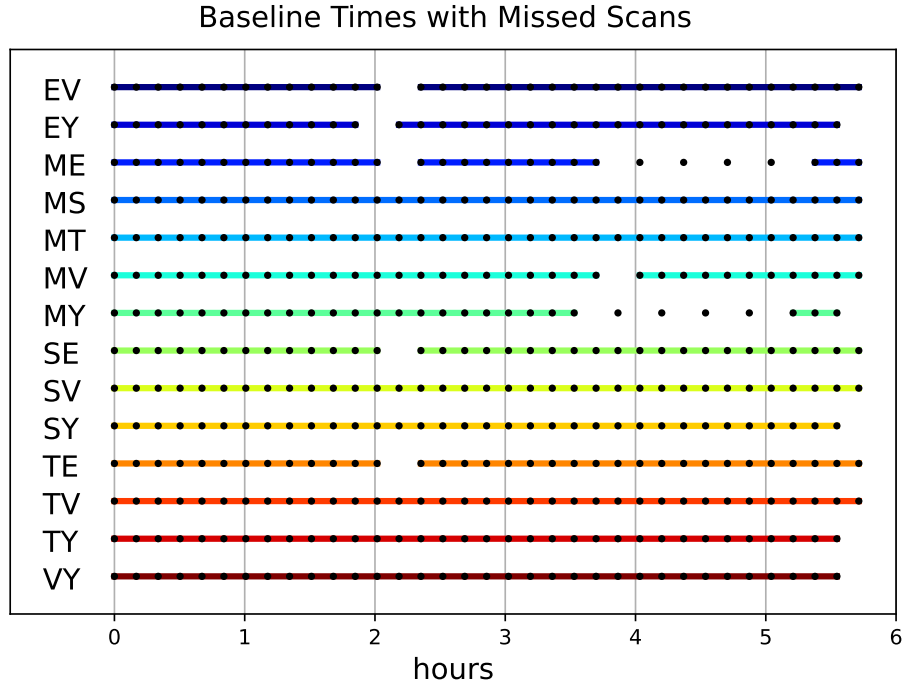

Figure 1: Scan times for all the baselines. The scan times are marked with black dots. The missing scans are shown as white spaces.
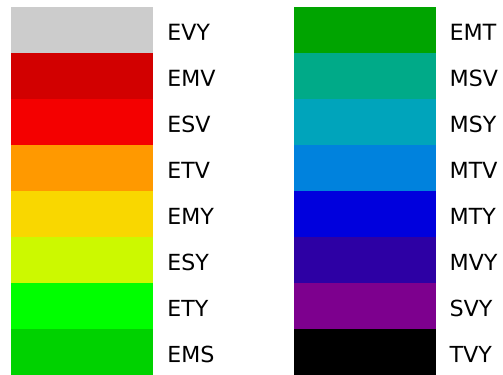
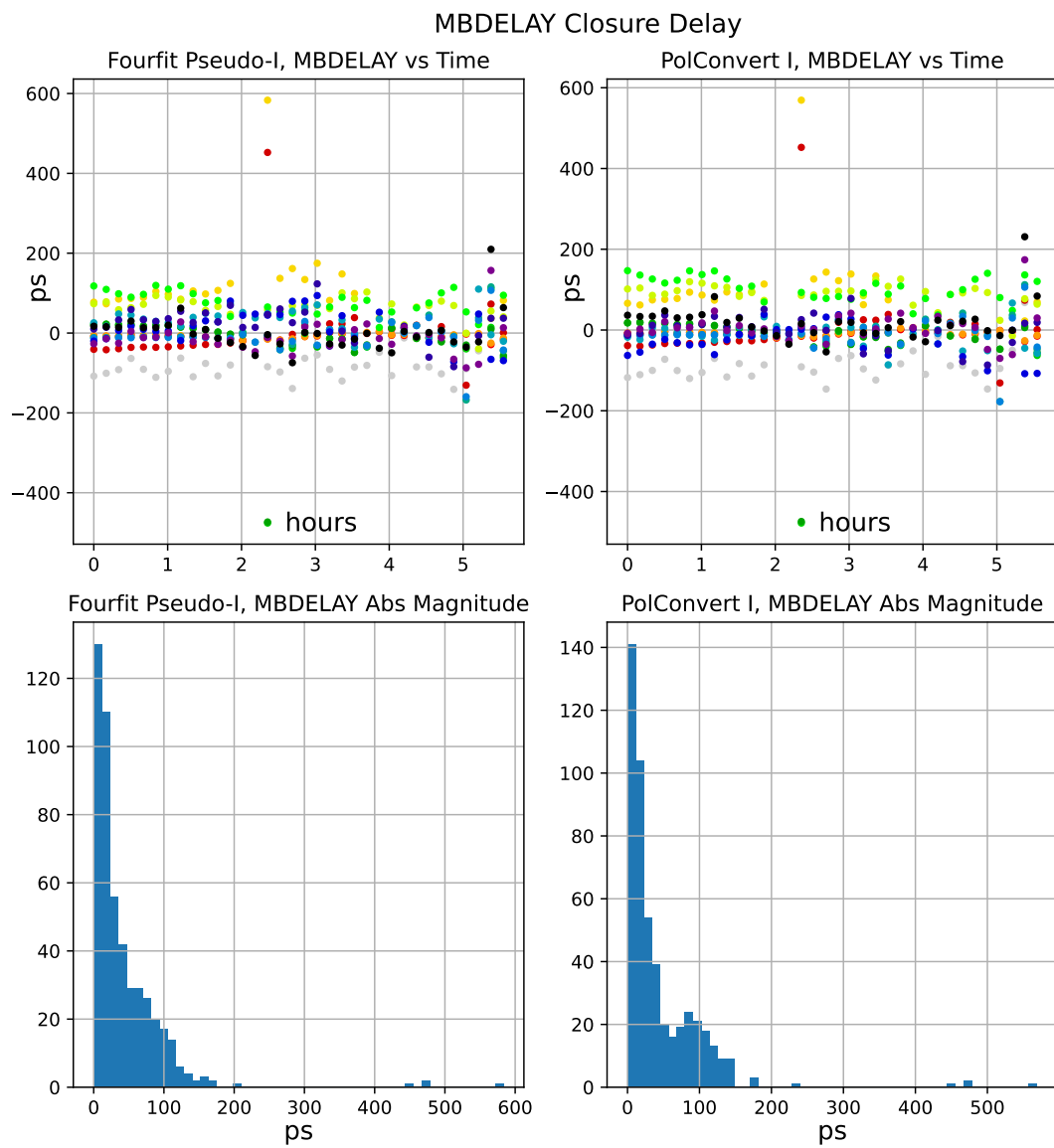Figure 2: Color legend for the closure triangles.

Figure 3: MBDELAY closure delay distributions over 5.5 hours and histograms of their absolute magnitudes.
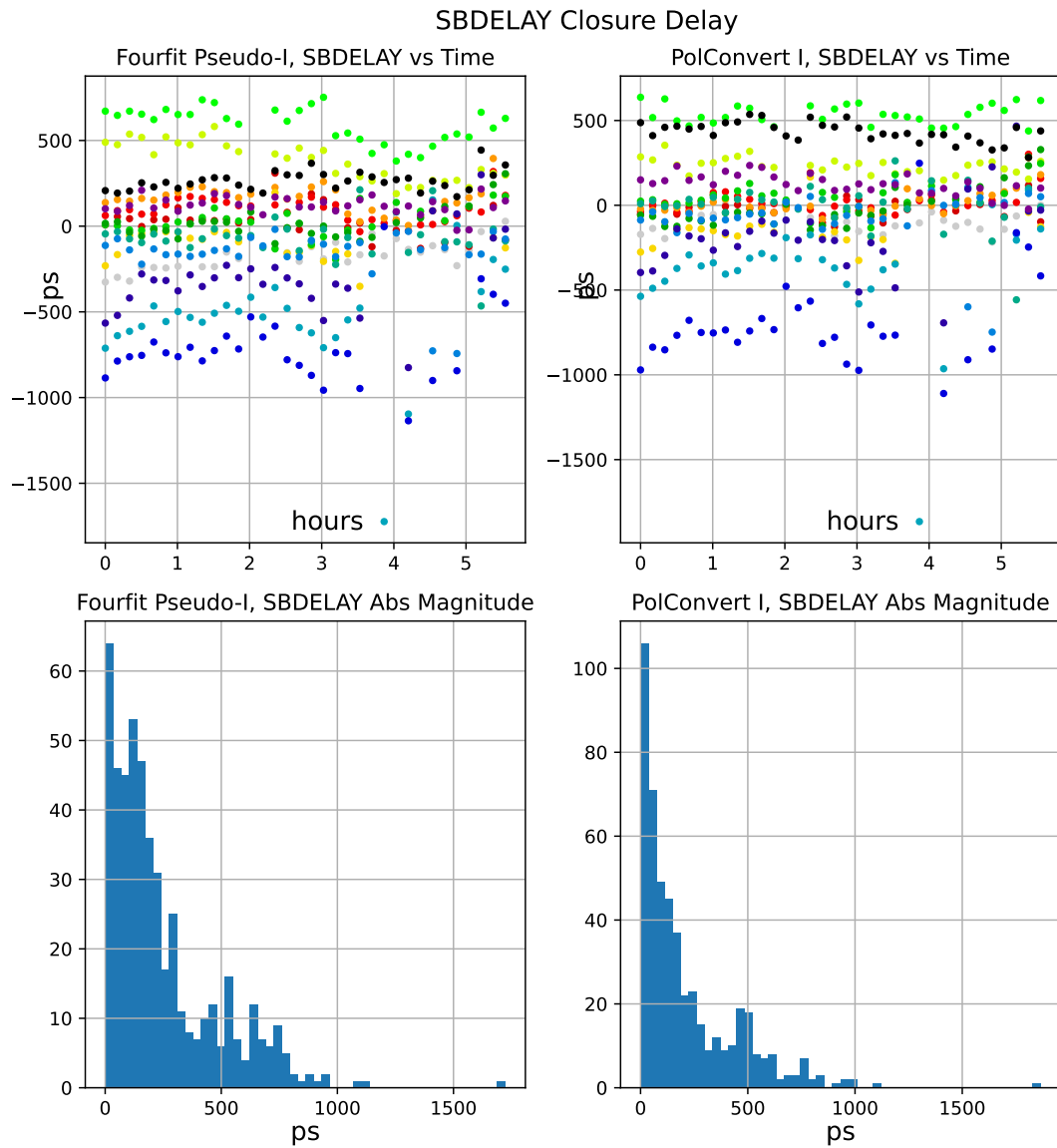
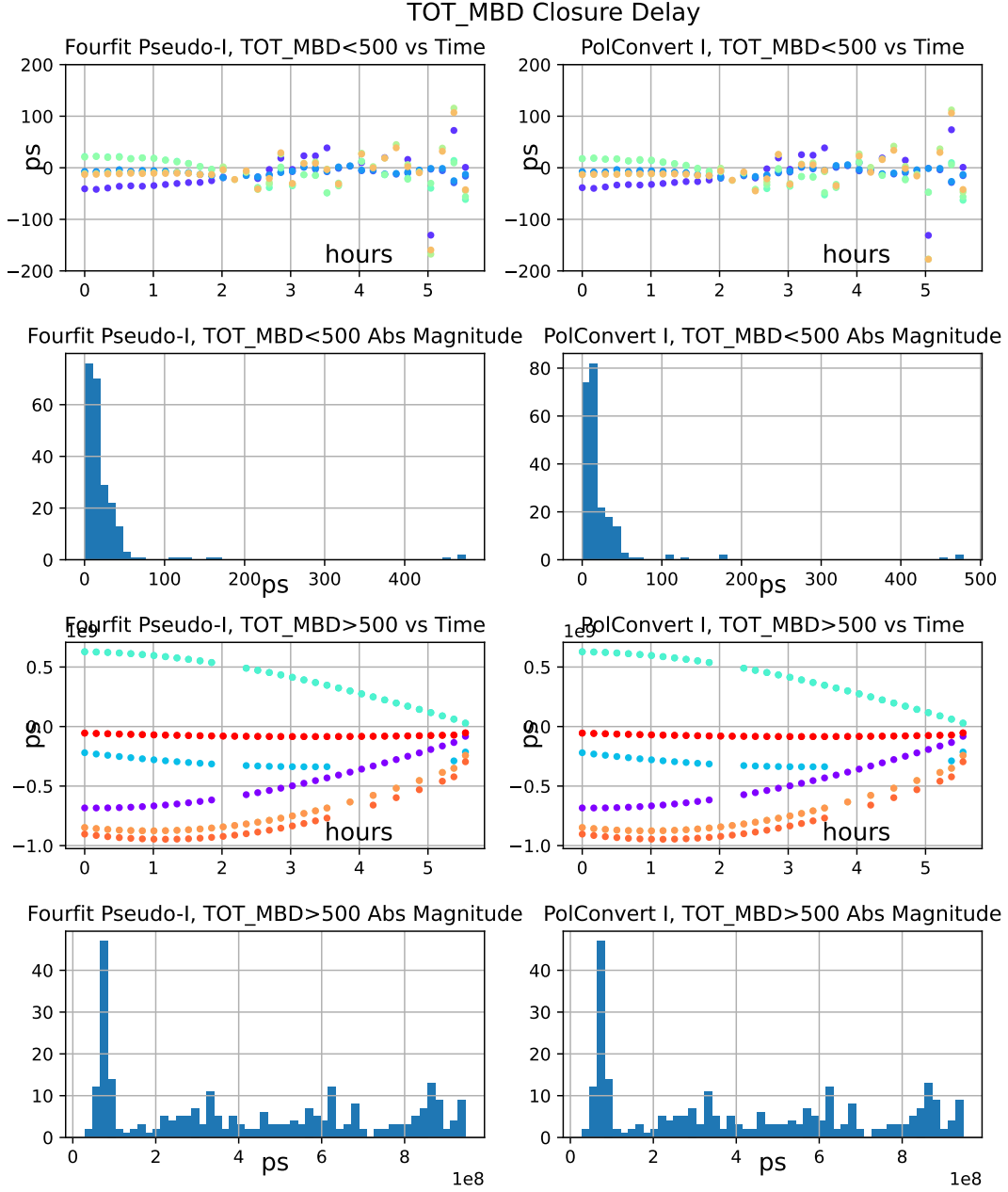Figure 4: SBDELAY closure delay distributions over 5.5 hours and histograms of their absolute magnitudes.

Figure 5: Total MBDELAY closure delay distributions over 5.5 hours and histograms of their absolute magnitudes.
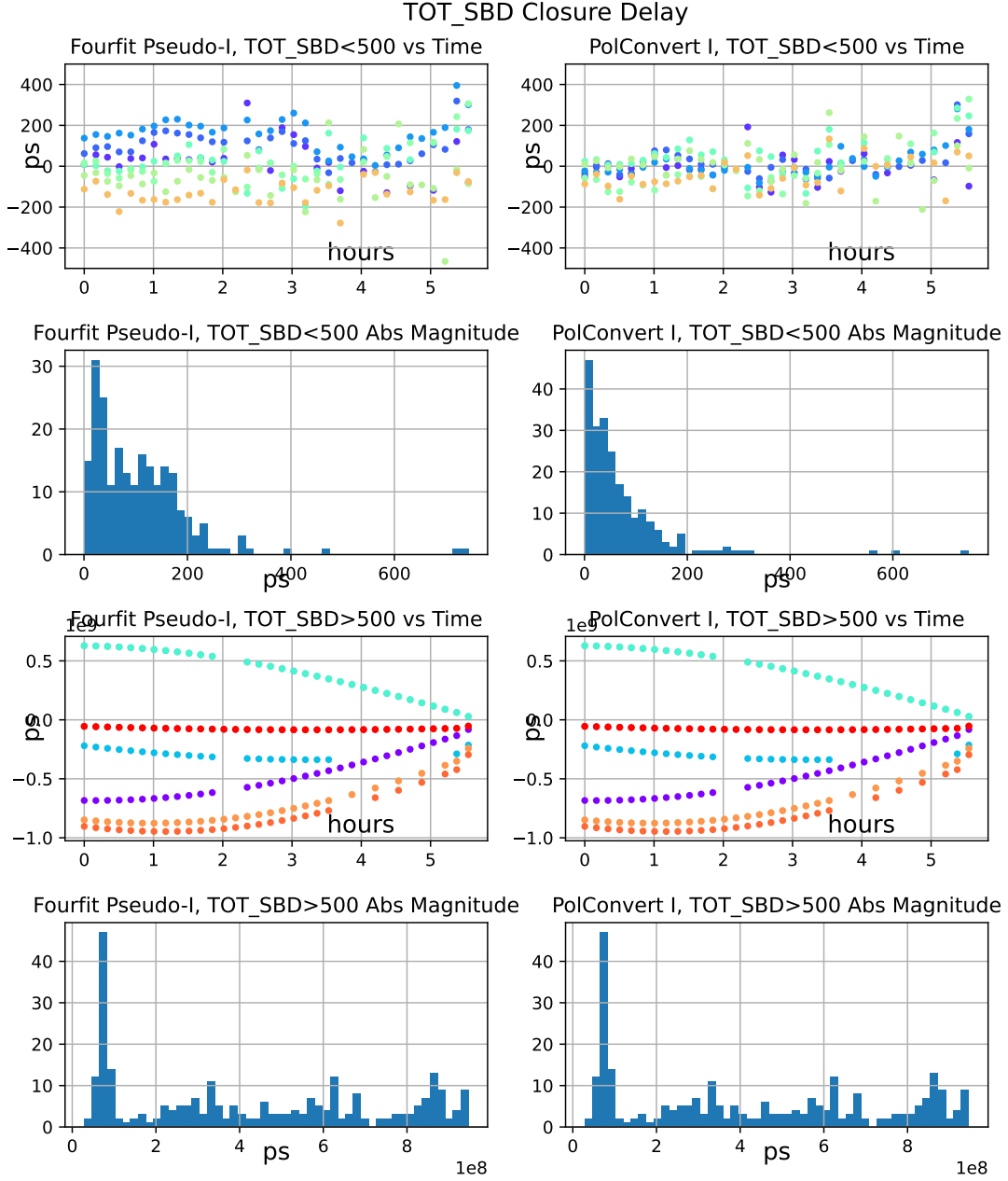
Figure 6: Total SBDELAY closure delay distributions over 5.5 hours and histograms of their absolute magnitudes.