2.1 Some preliminary conclusions

- the 1 MK loops seen in TRACE 173 Å must be almost isothermal along the line of sight, otherwise they would be visible in CDS lines emitted over a broad range of temperatures.
- Excellent consistency between the TRACE 173 Å image and CDS images in lines emitted at 0.8–1.0 MK.
- These 1 MK loops are much cooler than the surrounding diffuse emission, since they are visible in CDS lines emitted at lower temperatures.
- 1 MK loops are almost not visible in TRACE 195 Å band (NO FILTER RATIOS!).
- TRACE 195 Å emission is not always due to Fe XII emission, otherwise all the loops would be clearly visible by CDS in Fe XII lines.
- At higher temperatures, between 1.5 and 2 MK, the active region produces only diffuse background emission.
- The diffuse background along the line of sight represents a significant fraction of the loop emission (BACKGROUND SUBTRACTION!).
- At even higher temperatures low–lying hot loops are present, as seen in e.g. Fe XVI. These loops do not have any direct spatial relationship with the 1 MK loops, but are the loops that are normally observed with e.g. Yohkoh/SXT.
- Even with the TRACE resolution, most loop structures appear to be composed of multiple threads.
- For both TRACE and CDS: almost no regions free of AR loop emission, to be used for background subtraction.