

## Main Functions of PIG

**Start and stop observation**

**Drive telescope to sun or to home position**

**Select set position**

**X,Y [1/10] arcsec for sensor guiding and encoder guiding**

**Goto set position (X,Y) and start guiding using encoder or sensor**

**Goto set position like before but correct for solar differential rotation**

**Set intensity threshold guiding**

**If intensity is above threshold turn to encoder**

**Set guiding accuracy**

**If abs (actual position - set position) > accuracy in X or Y, correct position**

**Manual control**

**Move telescope in one or two directions with slow or medium speed**

**Flatfield mode**

**Move telescope in a zigzag trace over the solar disc with constant velocity in order to enable a CCD flatfield recording**

**Diverse query commands for all actual parameters**

**Query for motor status**

**Possible states: free, manual control, guiding with or without following solar differential rotation, flatfield mode, goto sun mode, and go home mode**

## Additional GUI functions

**Store positions in a table**

**Correct table for solar differential rotation**

**Use (B,L) coordinates instead of (X,Y)**

**Move telescope by mouse on a solar grid**