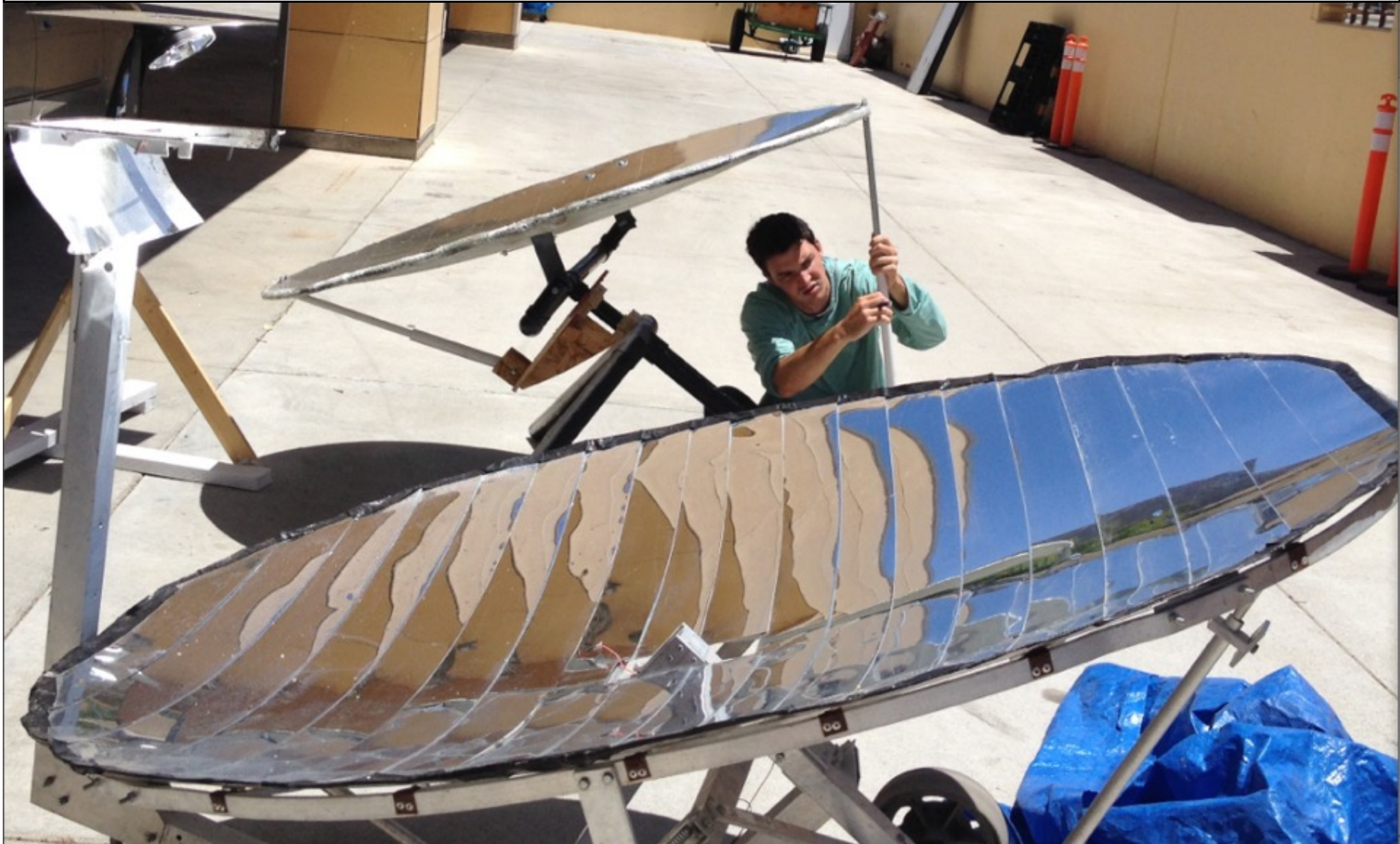
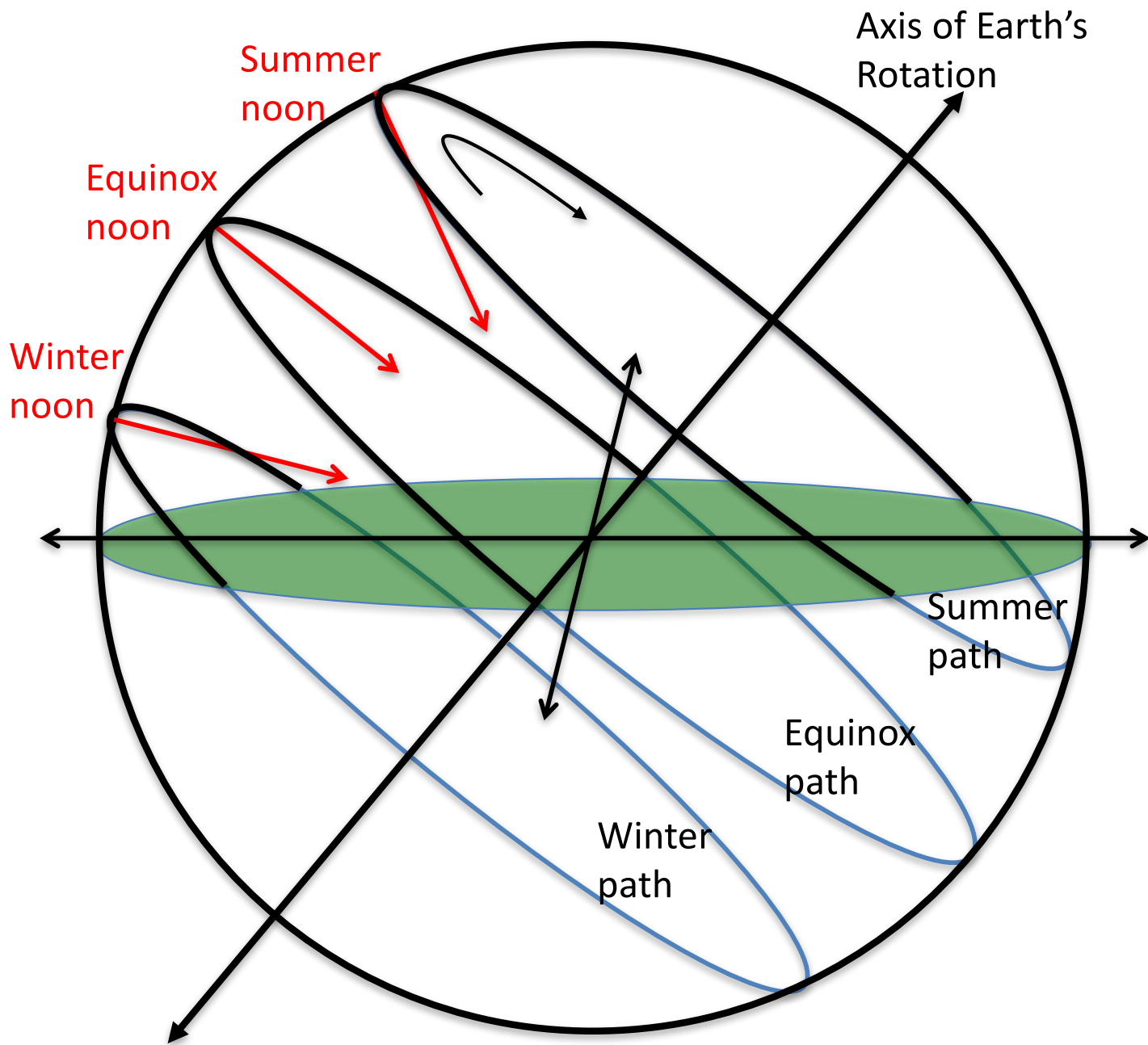
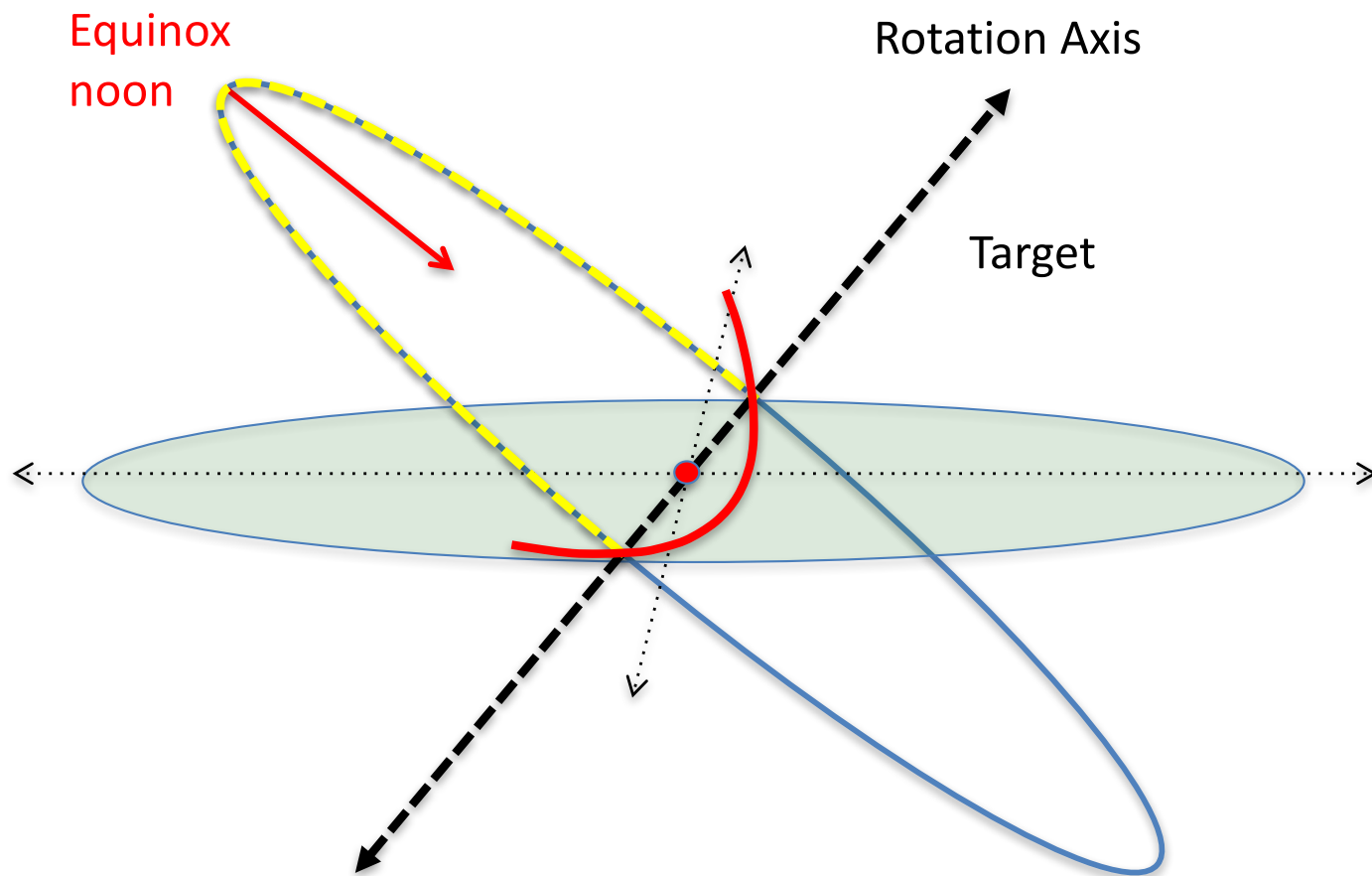


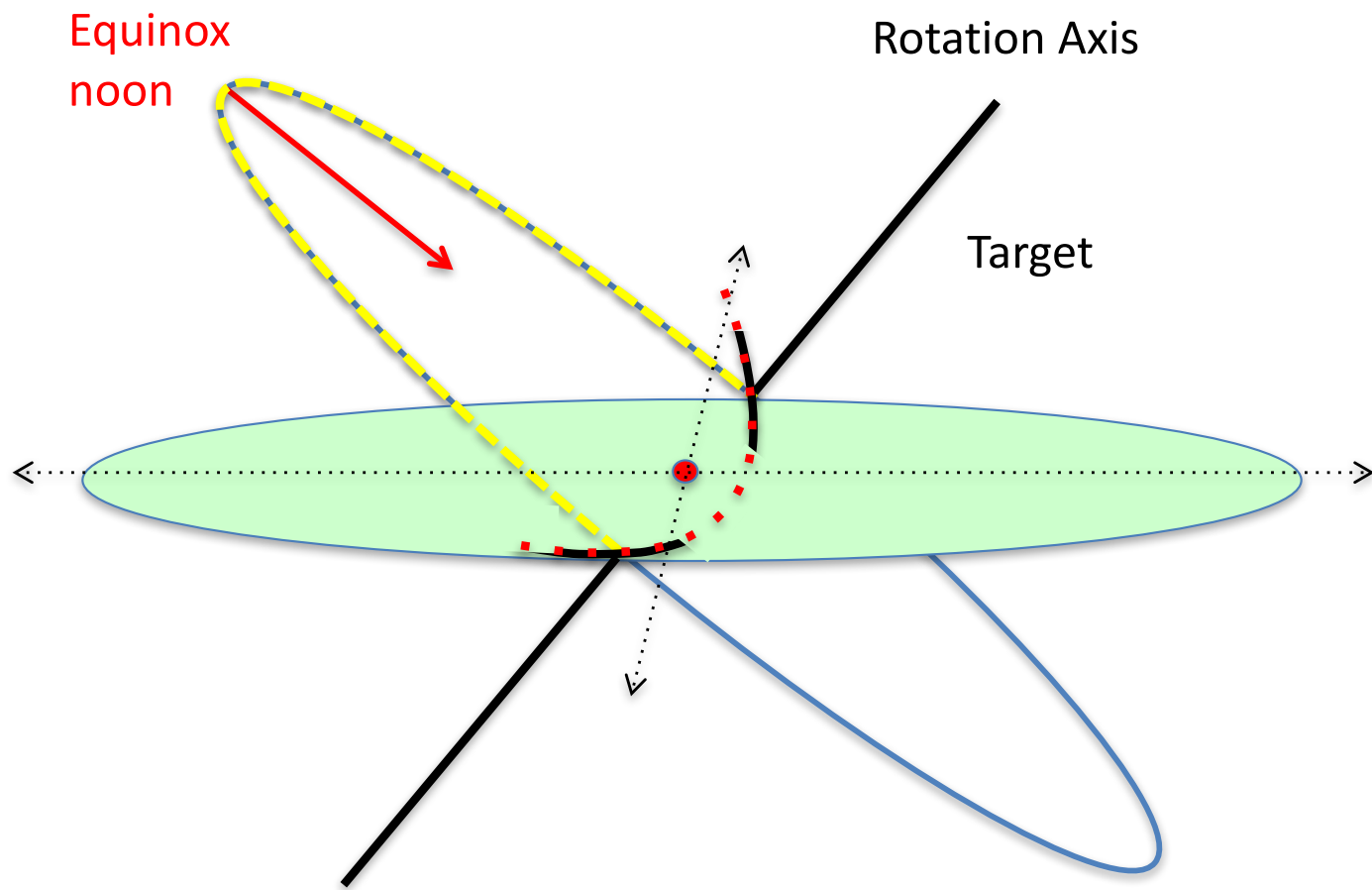
Scheffler Concentrator: Single Axis Tracking, Stationary External Focus

Pete Schwartz, *Cal Poly Physics*

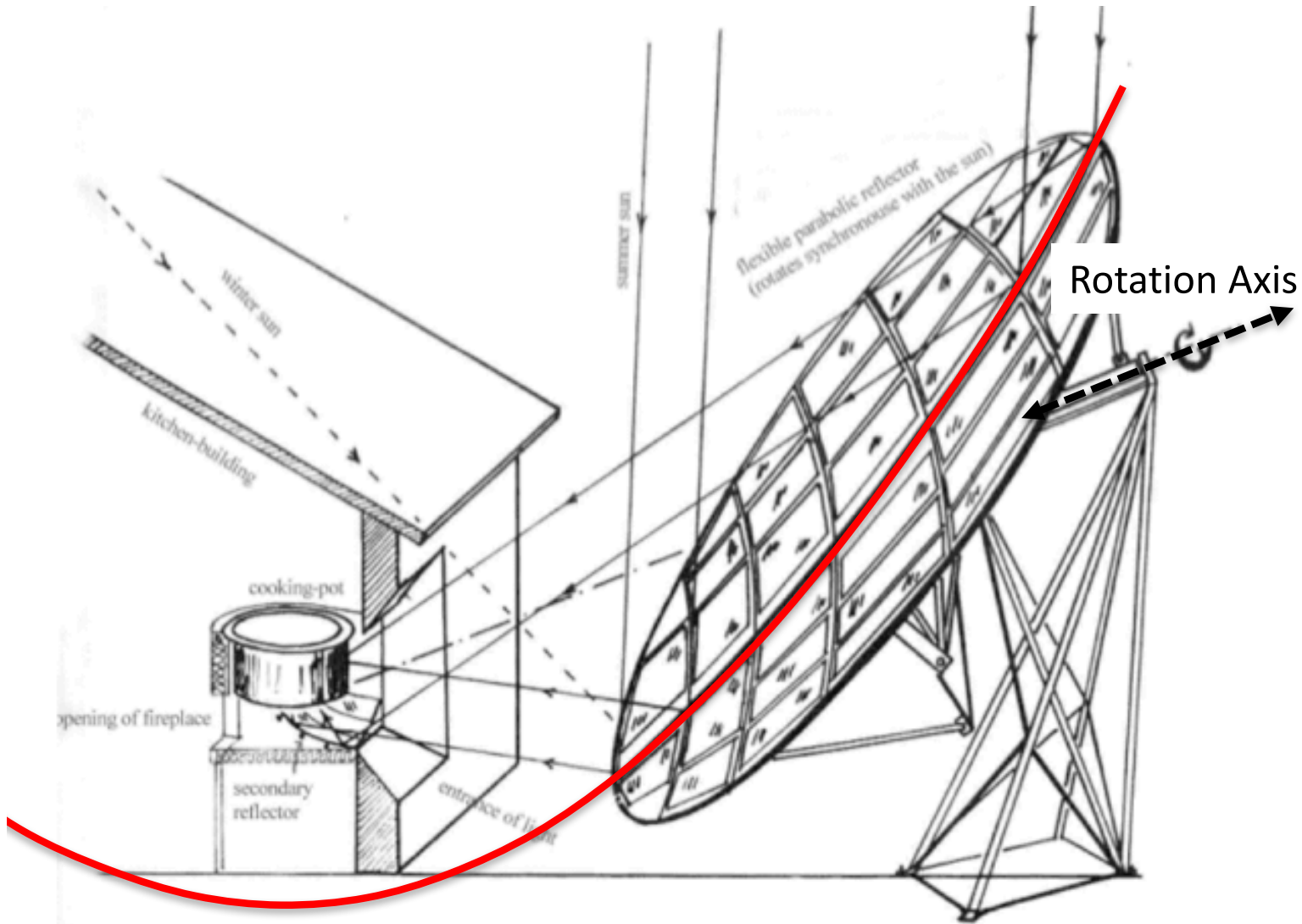


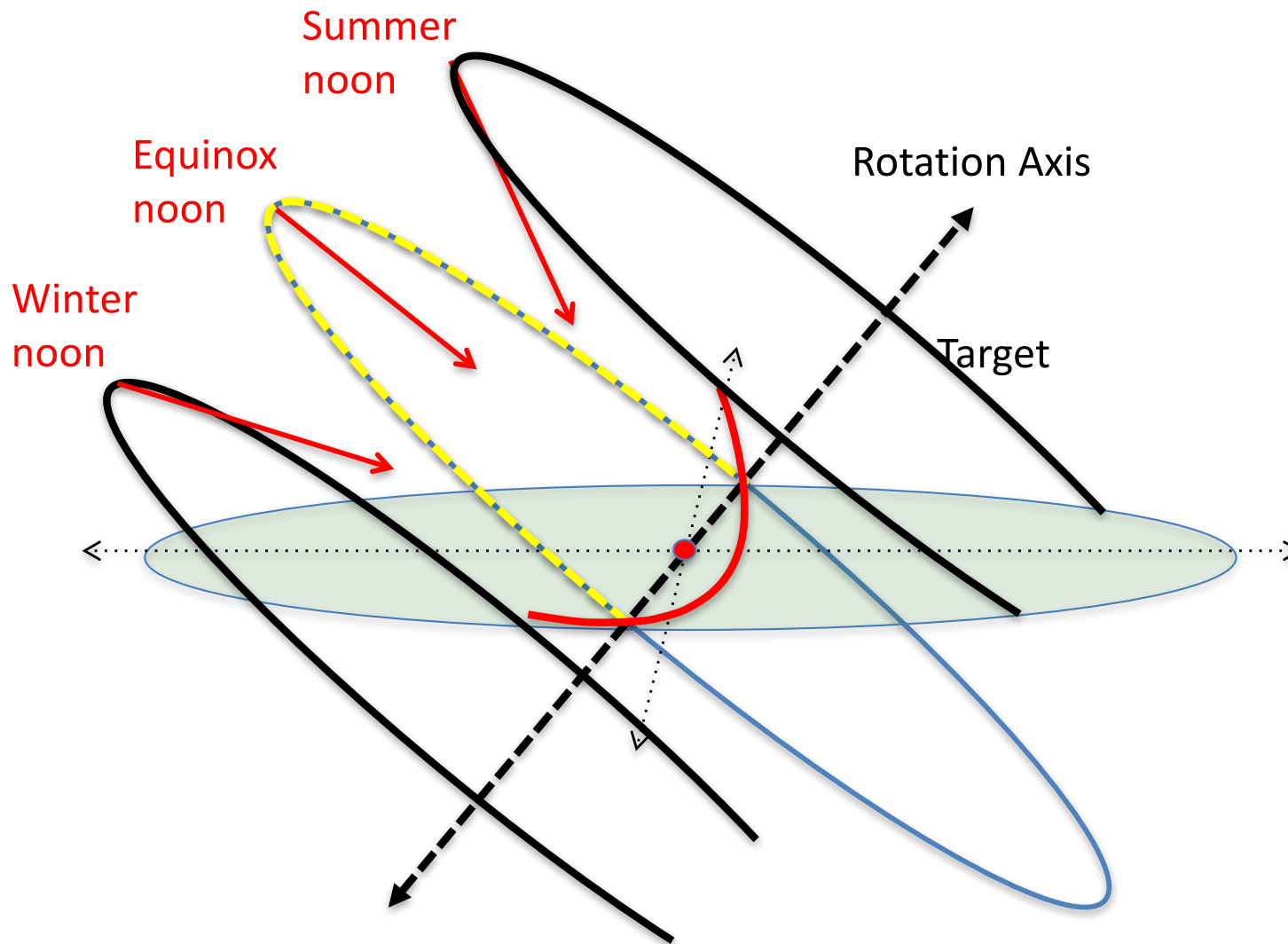




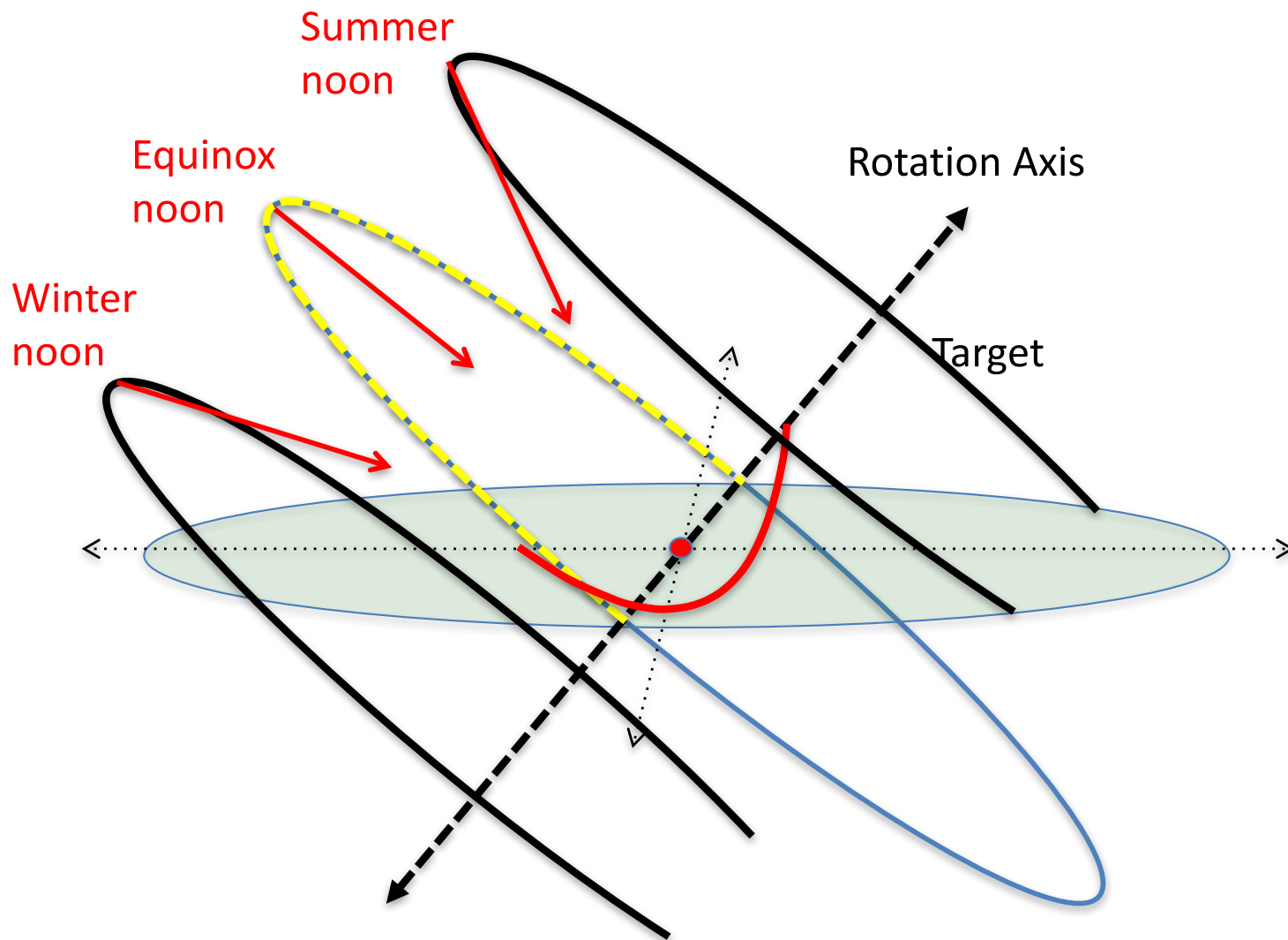


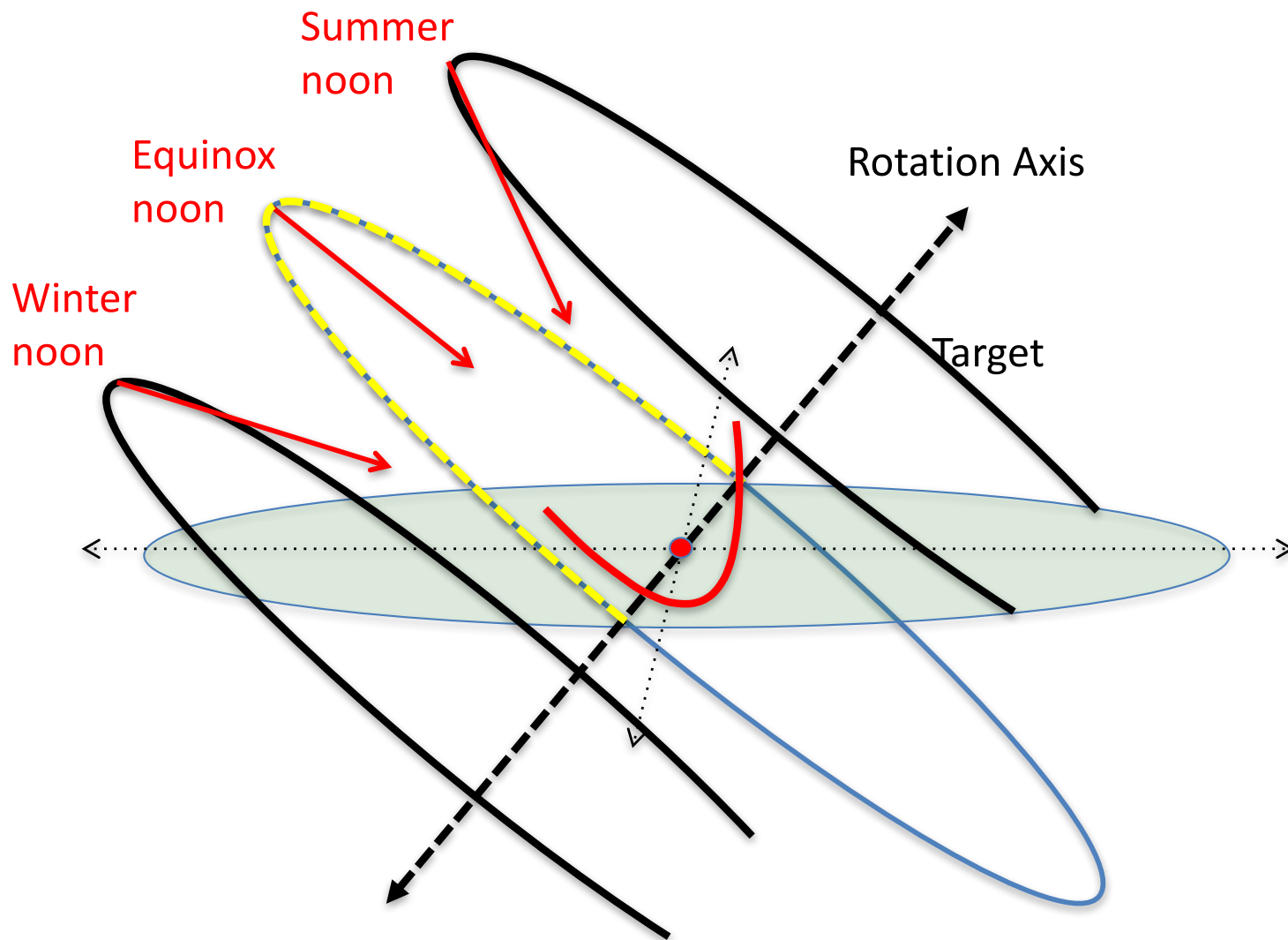
Dish must rotate with the sun's apparent motion

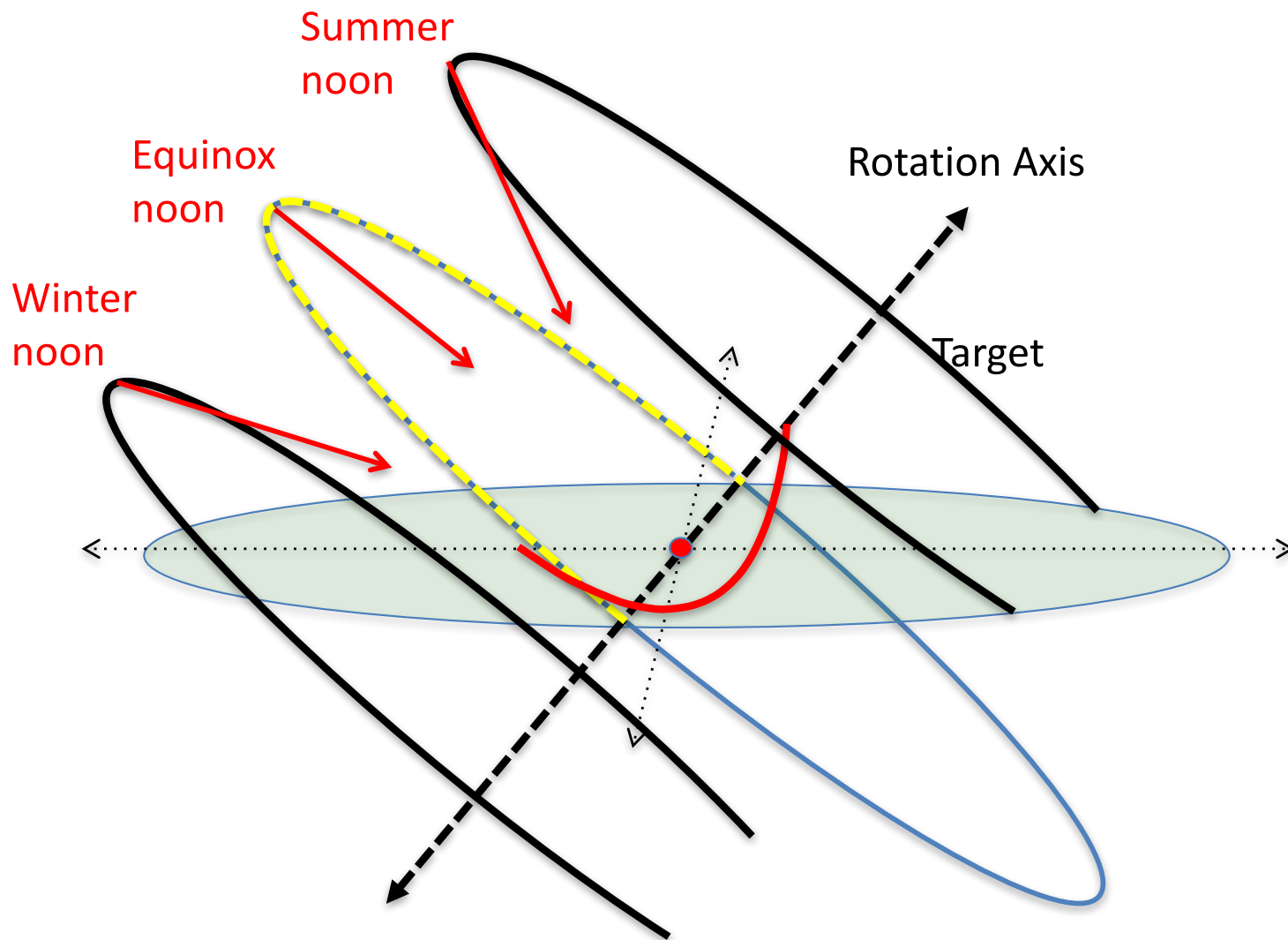


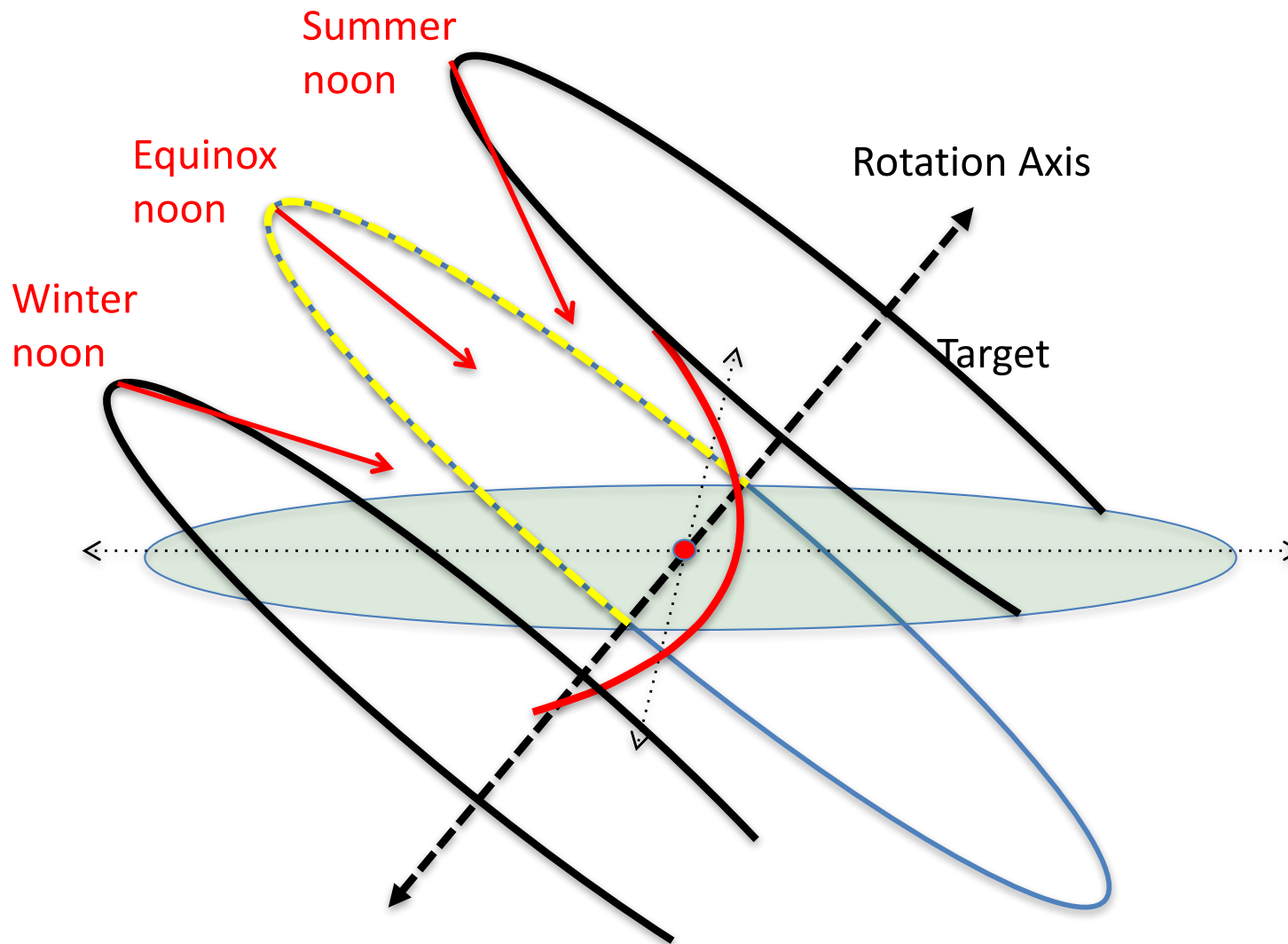


Why must dish be flexible and able to tilt?









So the dish must be flexible and able to tilt!



5 students took 2 months to construct







Present Directions

- Deforming the Dish?: Computer Modeling and Construction
- Build kitchens with Adobe
- Explore Use at home and in developing countries





Quail Springs Permaculture Design Center, New Cuyama, Ca





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Solar Concentrators: Cheap and High Performance

- 1) Scheffler: high concentration, single axis tracking, stationary focus
- 2) Metal lattice construction is time consuming
- 3) Fiberglass “lay up” takes about 2 hrs, mold is capital intensive
- 4) Future: nonindustrial construction with natural materials
- 5) Dissemination with collaborative partners

