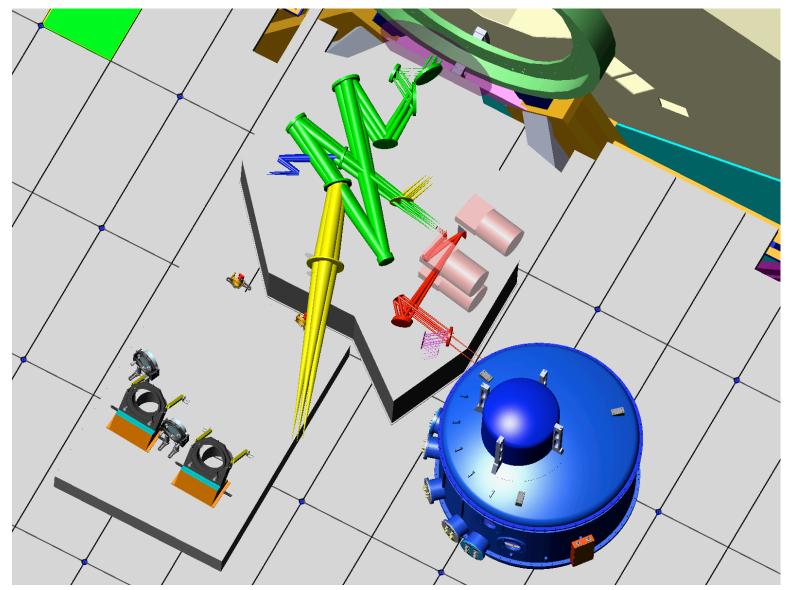
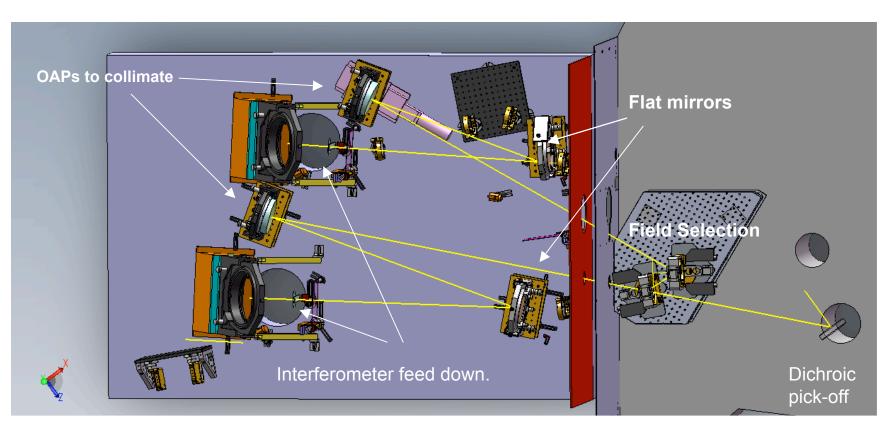
KNGAO Interferometer feed

31 Aug, 2009



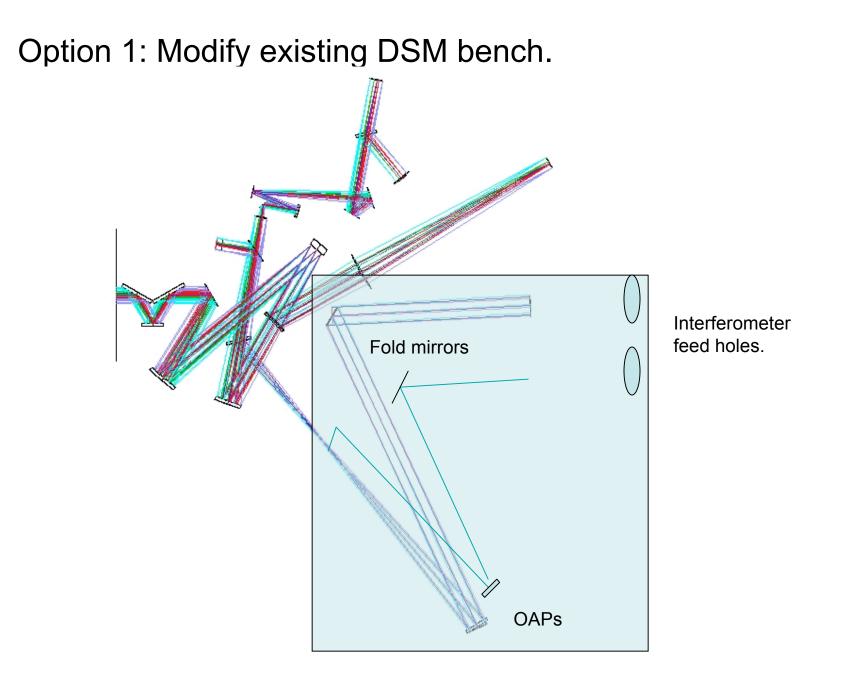
KNGAO relay design superimposed on existing Keck DSM bench. Interferometer feed is in blue.

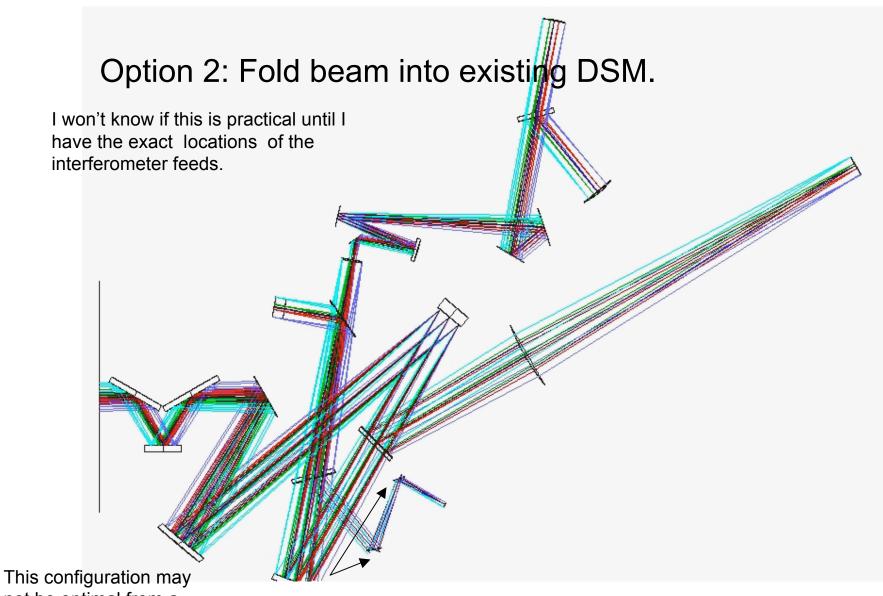


DSM bench, ASTRA configuration.

Interferometer modes to be supported all require converging-to-focus beam. Near focus a field selector allows the on-axis field to pass straight through a hole in the center of the first of a pair of FSMs. The beam is collimated by an OAP (of focal length approximately 1800mm), and is directed by two flat mirrors to the hole in the Nasmyth floor. A second star is selected by the FSMs, is collimated by a different OAP, and is directed to a separate interferometer access hole by two flat mirrors.

The field selector is located on the AO bench. OAPs and flat mirrors are on the FSM bench.





This configuration may not be optimal from a polarization perspective - there are two additional reflections with fairly large incidence angles.

Fold mirrors

