Saved shape application

- Consider actual shell status (positions and forces) VS recorded shell status and compute delta position and delta current on close loop actuators (dP, dF)
- Compute theoretical delta current considering feed forward matrix and delta position (dFF)
- Consider the distribution of (dFF – dF): use a threshold of $3\sigma$ on gauss distribution fit to select actuators
- On actuator selection, use dF data to compute a new synthetic delta command dCs
- Compute the new delta command dC as mix of dP (good actuators) and dCs (bad actuators)
- Null high order modal components until force is lower than threshold
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Open issues...

• Is the procedure working with a reference flat with a different number of actuators in close loop?
• How can we modify the procedure for taking in account the elevation of the telescope?
• Can we find a more deterministic way to identify miscalibrated actuators?