Data structures

File with raw data of SHARPeR (5 scans AB and BA), and Zygo Fizeau (1 scan AB)

* Jtec\_flat (NX\_class = ‘NXroot’)
  + ESRF\_SHARPeR\_AB (NX\_class = ‘NXentry’)
    - Scan\_1  
      ….
    - Scan\_2  
      ….
    - Scan\_3 (NX\_class = ‘NXsubentry’)
      * Start\_time
      * SHARPeR (NX\_class = ‘NXinstrument’)
        + HASO (NX\_class=’NXdetector’)

Data (NX\_class = ‘NXdata’)

Slopes\_x

Slopes\_y

Mask

Timestamps

pixel\_size

serial\_number

* + - * + NOM (NX\_class = ‘NXdetector’)

Data(NX\_class=’NXdata’)

Slopes\_X

Timestamps

pixel\_size

serial\_number

* + - * + Positioners(NX\_class=’NXcollection’)

mX

mY

mZ

mRx

mRy

mRz

* + - * + Name
        + Version
      * Data (NX\_class = ‘NXdata’)
        + HASO\_slopes\_x (link to - ../SHARPeR/HASO/Data/Slopes\_x)
        + HASO\_slopes\_y (link to - ../SHARPeR/HASO/Data/Slopes\_y)
        + HASO\_mask (link to - ../SHARPeR/HASO/Data/Mask)
        + NOM\_slopes\_x (link to - ../SHARPeR/NOM/Data/Slopes\_x)
        + motor\_X (link to - ../SHARPeR/Positioners/mX)
      * Measurement\_info (NX\_class = ‘NXnote’)  
        …..(meta data)
      * Sample(NX\_class = ‘NXsample’)  
        ….(meta data)
      * User (NX\_class = ‘NXuser’)  
        ….(meta data)
    - Scan\_4  
      …..
    - Scan\_5  
      …..
  + ESRF\_SHARPeR\_BA (NX\_class = ‘NXentry’)
    - Scan\_1  
      ….
    - Scan\_2  
      ….
    - Scan\_3  
      ….
    - Scan\_4  
      ….
    - Scan\_5  
      ….
  + ESRF\_ZYGO\_AB (NX\_class = ‘NXentry’) 🡨 different instrument
    - Scan\_1  
      ….
  + StitchResults (NX\_class = ‘NXentry’)
    - ESRF\_SHARPeR\_AB\_PS (NX\_class = ‘NXprocess’)
      * Program
      * Date
      * Parameters(NX\_class = ‘NXnote’)
        + Measurement\_entry
        + Stitch\_algorithm
        + Stitch\_step
      * Stitched\_scans (NX\_class = ‘NXcollection’)
        + Scan\_1 (NX\_class = ‘NXdata’)

Slopes\_x\_stitched

Slopes\_y\_stitched

* + - * + Scan\_2  
          …
        + Scan\_3  
          …
        + Scan\_4  
          …
        + Scan\_5  
          …
      * Stitched\_scan\_avg (NX\_class = ‘NXdata’)
        + Slopes\_x\_stitched
        + Slopes\_y\_stitched
        + Height\_integrated
      * ESRF\_SHARPeR\_BA (NX\_class = ‘NXprocess’)  
        ….
      * ESRF\_SHARPeR\_ABBA(NX\_class = ‘NXprocess’)
        + Slopes\_x\_ABBA\_avg
        + Slopes\_y\_ABBA\_avg
        + Height\_integrated
      * ESRF\_ZYGO\_AB (NX\_class = ‘NXprocess’)  
        …