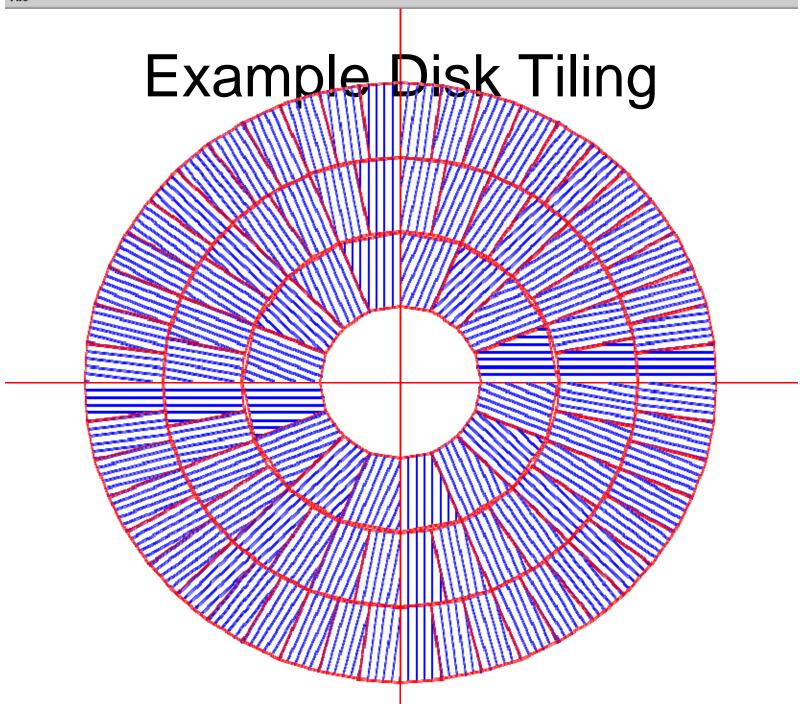
Forward Tracking Tiling issues

Digitization

- Working on code to handle various combinations of tilings in the forward disks.
- Will want to be able to study various combinations of pixel and microstrip tilings.

WedgeZPlane

- Allows one to construct a tiling of a disk with just a few input parameters:
 - number of annuli
 - number of wedges per annulus
 - inner radii of annuli
 - outer radii of annuli
 - phi offset of wedges in annulus
 - strip pitch
 - orientation of strips



Demo Applet

- IDDecoders developed to convert $(x,y) \rightarrow ID$, where ID encapsulates Wedge and Strip information.
- Wedge & Strip information can return line segment which represents strip hit.

Run Tiling Applet

Tracking strategies

- Current disks envision either double-sided or back-to-back silicon wafers, with offset pitch.
- Can form 3D spacepoints from intersections of strips, and use these in pattern recognition.
- Could also find tracks in VXD and project forwards, picking up single strips, without local hit resolution.

To do

- Digitize hits into readout strips, cluster strips and create strip hit positions and uncertainties.
- Study occupancies as a function of various disktiling geometries.
 - can introduce pixels into innermost rings if needed.
- Quantify number of ghost hits for various geometries.
 - Can we do standalone tracking in disks?
- Conduct studies with full backgrounds.