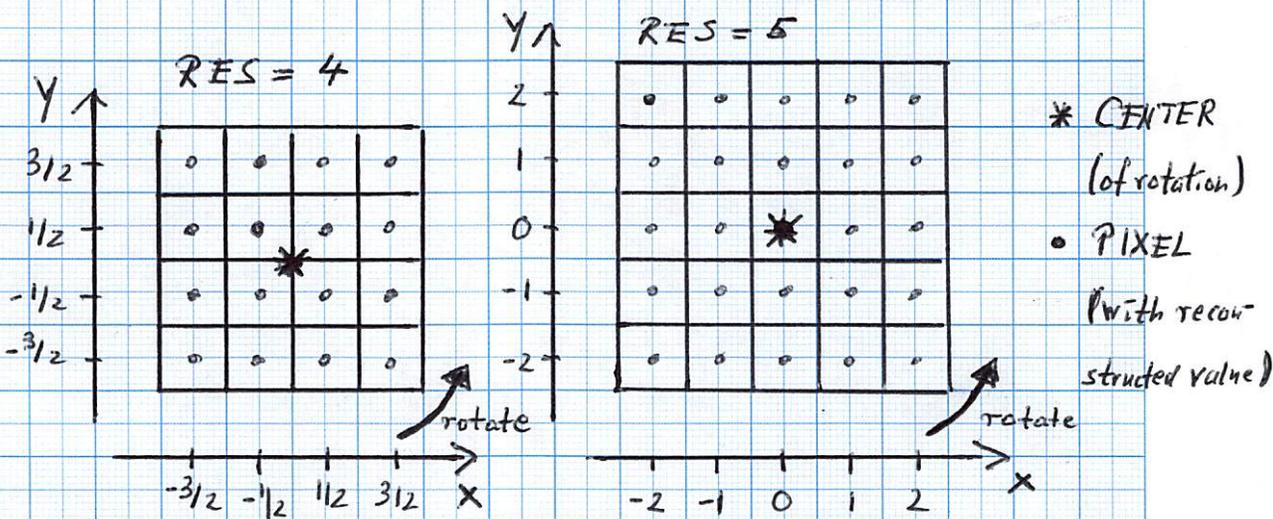Stratovan

◼ <u>Interpolation of LOW-Resolution Reconstructed</u>

<u>Image Data to Define a Continuously</u>

<u>Varying Reconstructed Image — to Be</u>

<u>Evaluated at (Arbitrarily) HIGH Resolution</u>

(1) LOW-res. reconstructions of <u>ODD/EVEN resolution</u>:

* CENTER
  (of rotation)

• PIXEL
  (with recon-
  structed value)

✲ <u>Rotation of the grid</u> (with ✲ being the center) moves
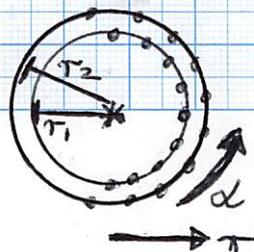   all pixel center locations • on circle with radii r:

y \\ x	1/2	3/2
1/2	1/2	5/2
3/2	5/2	9/2

y \\ x	0	1	2
0	0	1	4
1	1	2	5
2	4	5	8

(x,y) = pixel coordinates

$r^2 = x^2 + y^2$

$\Rightarrow r = \sqrt{r^2}$

(2) Interpolation

<u>known</u>: reconstructed
values at pixel locations
(•) lying on circles with
radii r_1 and r_2

➤(i) Univariate interpolation
of density values on all
circles done independently
(w.r.t. angle α)

(ii) Univariate interpolation
in radius dimension r

$\Rightarrow$ <u>DENSITY</u> = $f(\alpha, r)$. BH