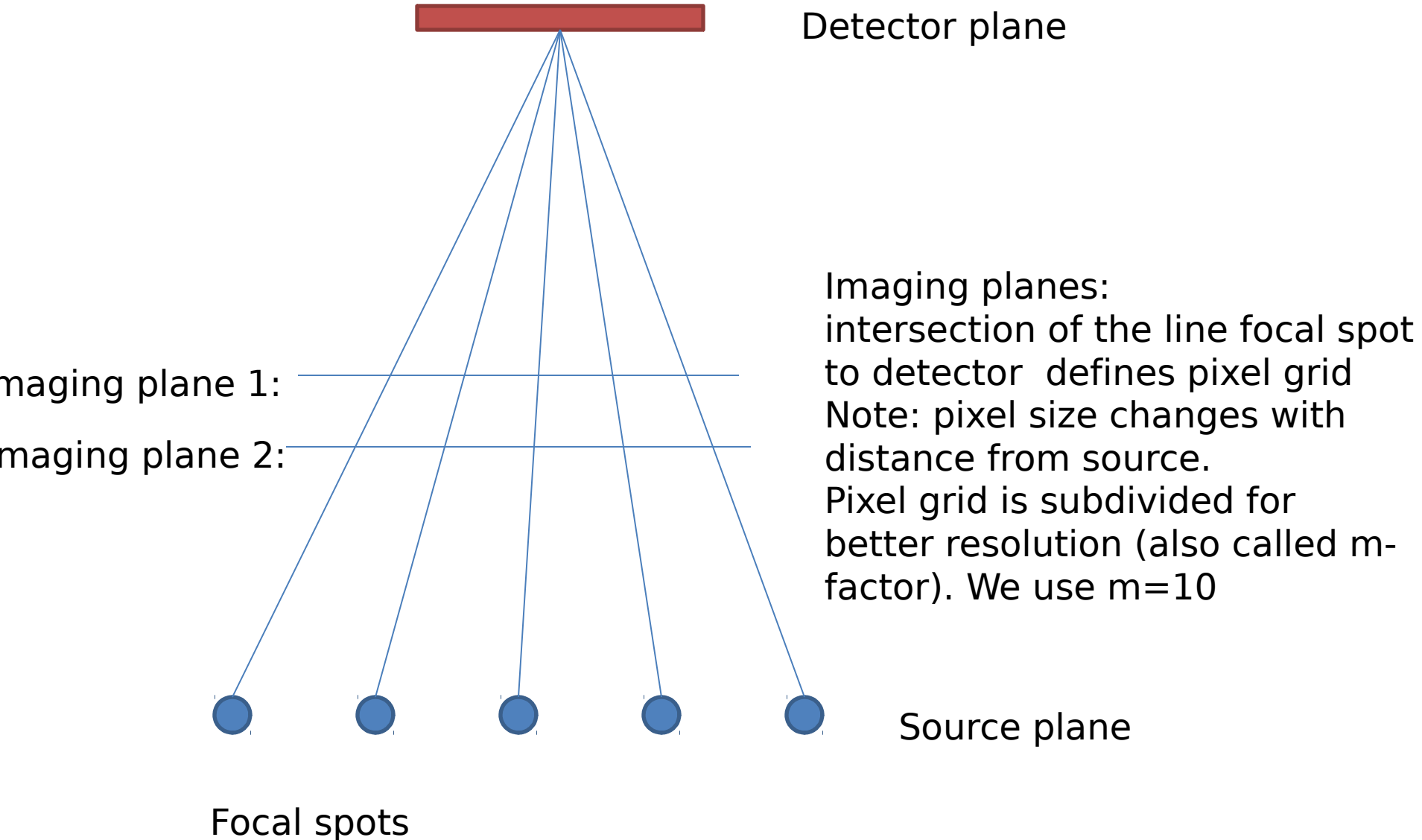
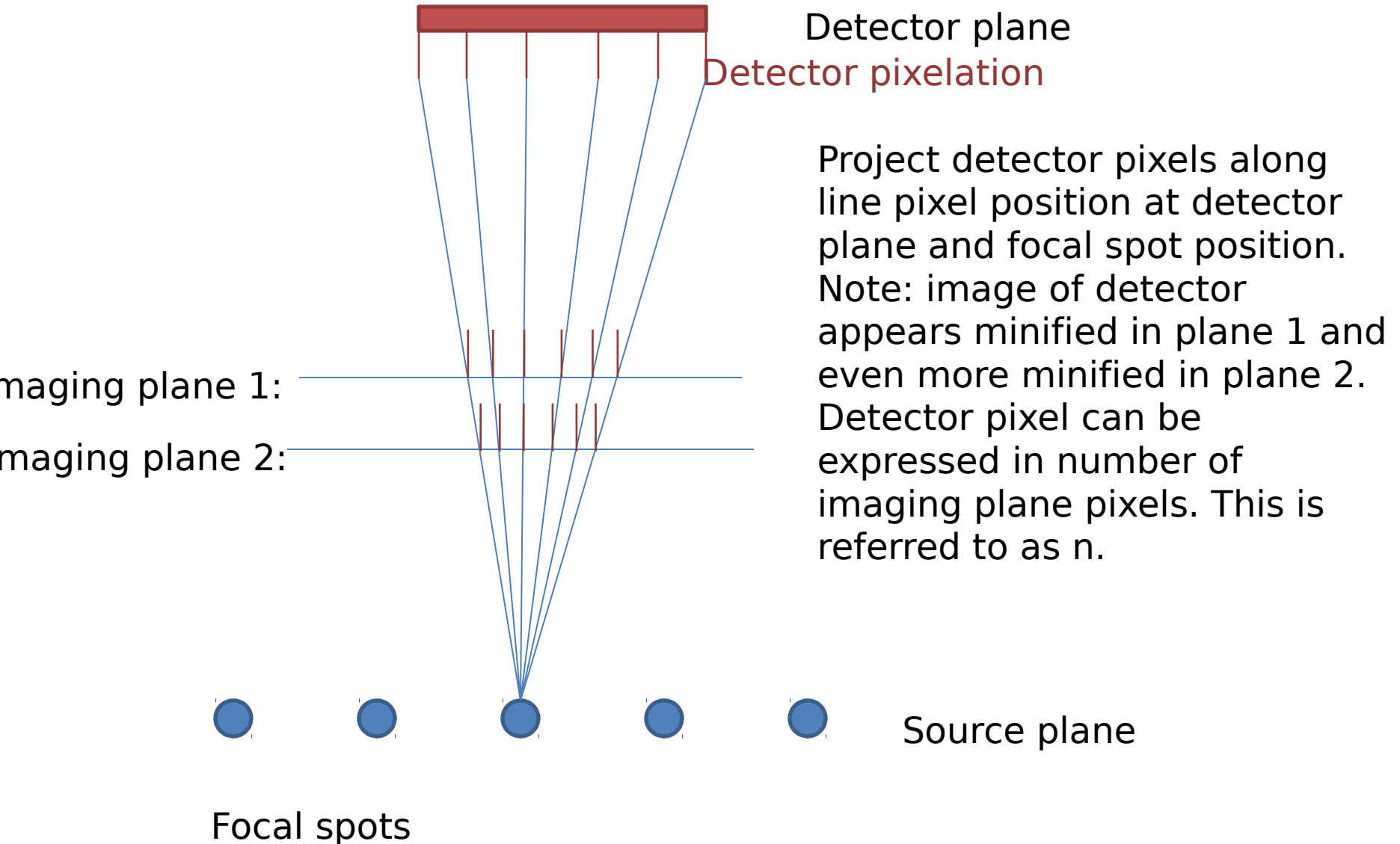


Reconstruction step by
step

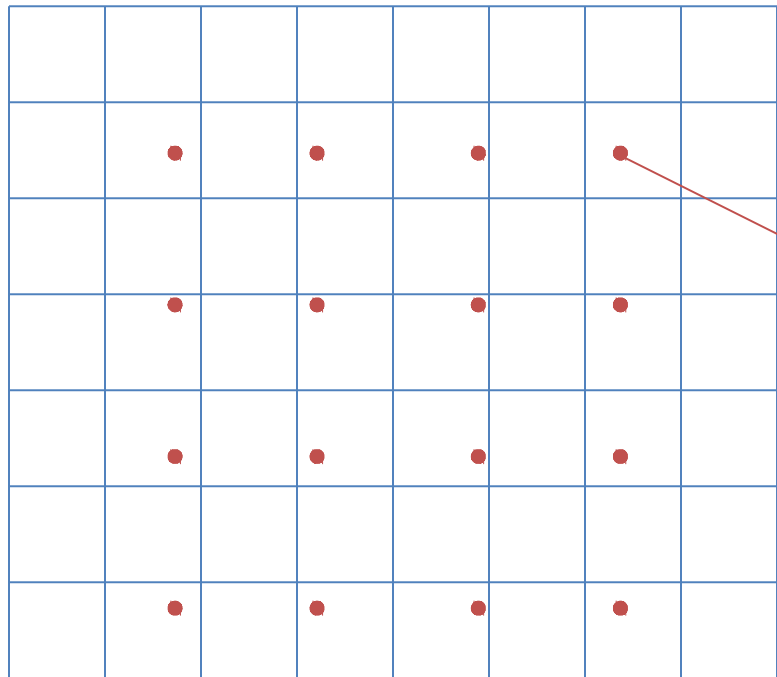
Definition image pixel grid



Project detector onto imaging plane



Resulting intersection points in one imaging plane in 2-D

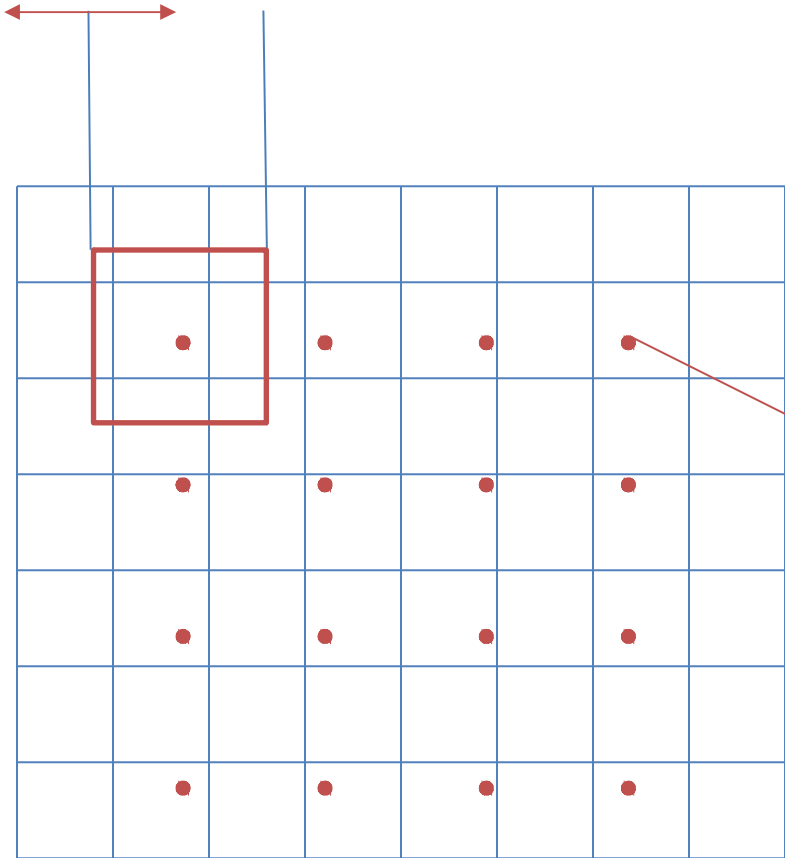


Imaging plane pixelation

Intersection points line
detector pixel center and
source

Fractional binning

Spread: expressed in imaging plane pixels



Imaging plane pixelation

Intersection points line
detector pixel center and
source

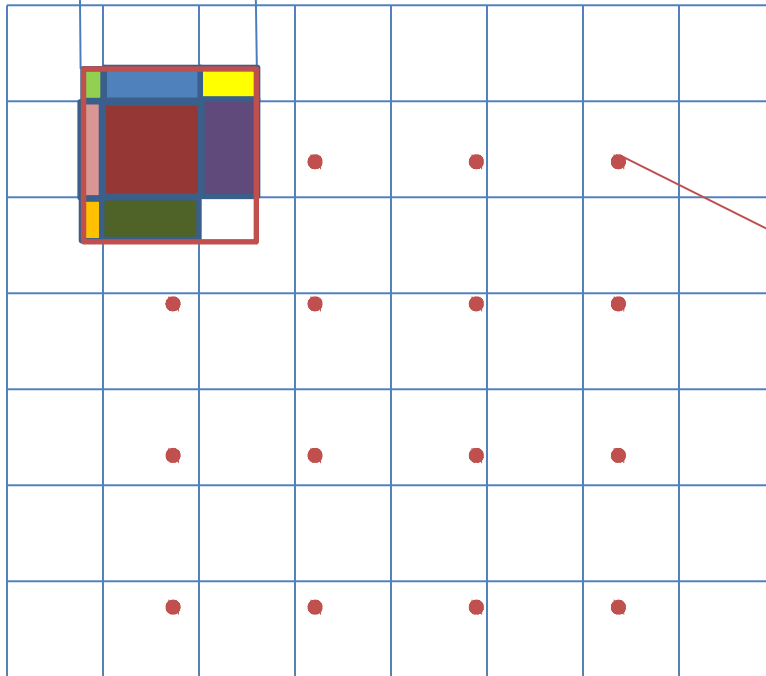
Fractional binning

Spread: expressed in imaging plane pixels



Calculate weights according to area taken up on imaging plane pixel

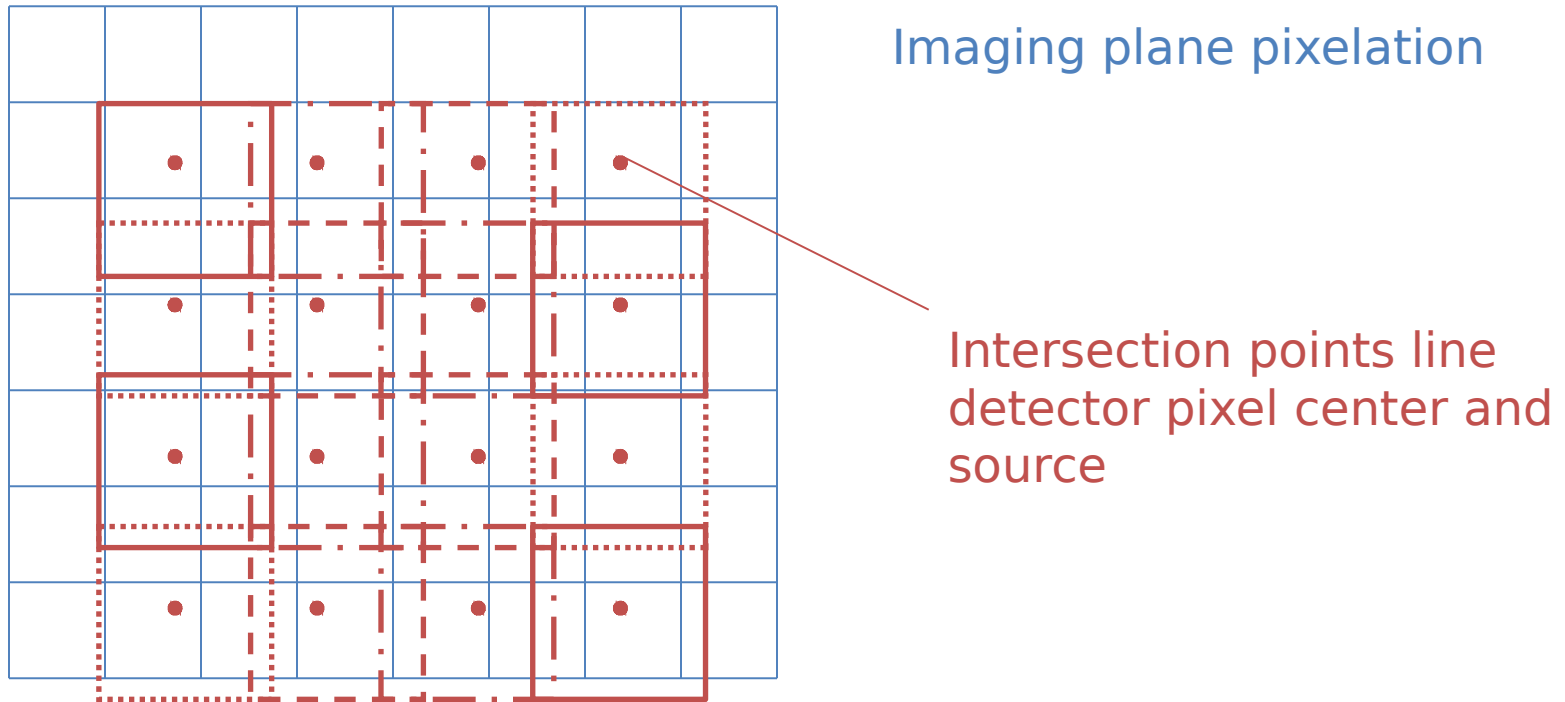
Imaging plane pixelation



Intersection points line detector pixel center and source

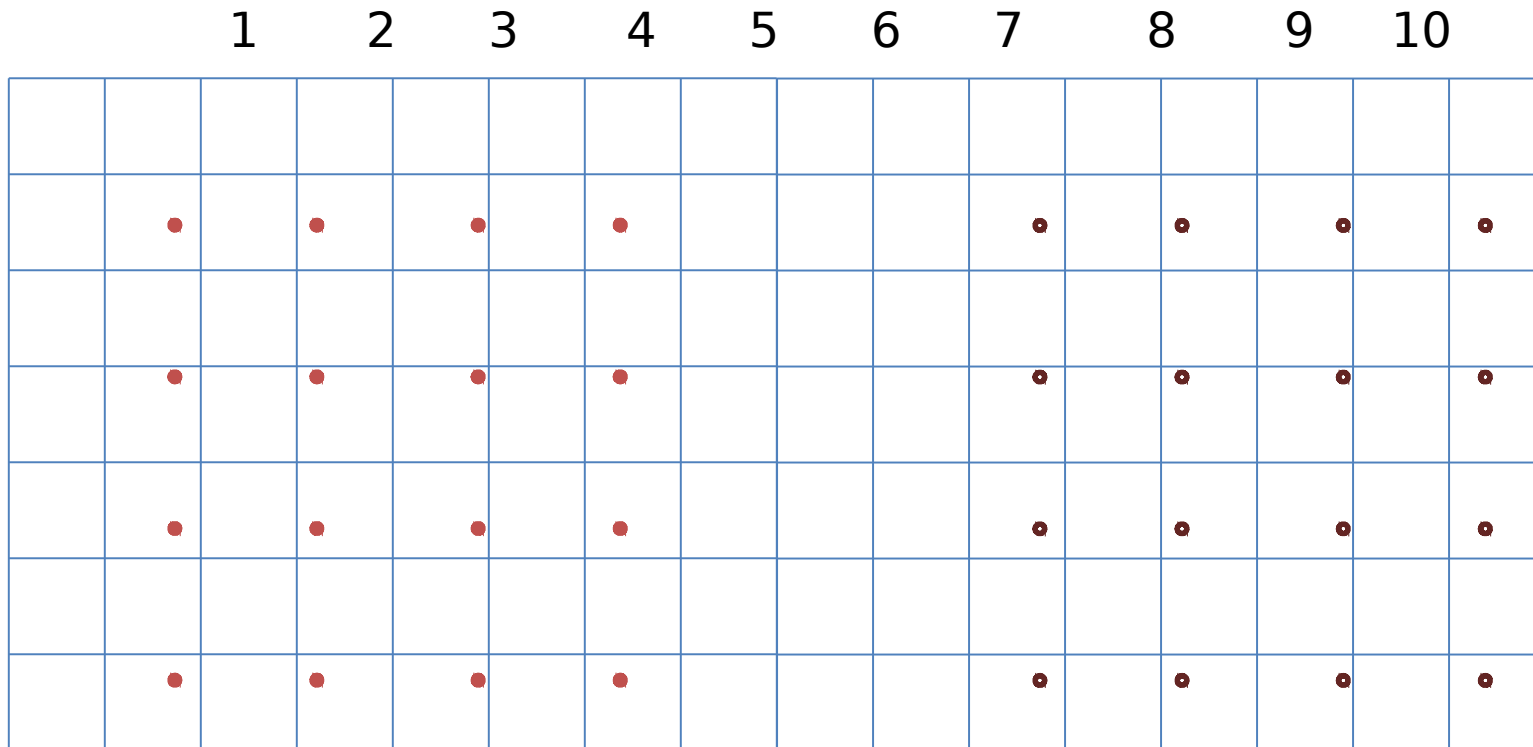
Fractional binning

Weights can be pre-calculated for entire detector projected on the imaging plane



Extension to multiple source positions

Next collimator hole is just a shift by 10 imaging plane pixels
Weights are shift invariant!



- Click to edit Master text styles
 - Second level
 - Third level
 - Fourth level
 - Fifth level

Focal spots at collimator