Xray DRR
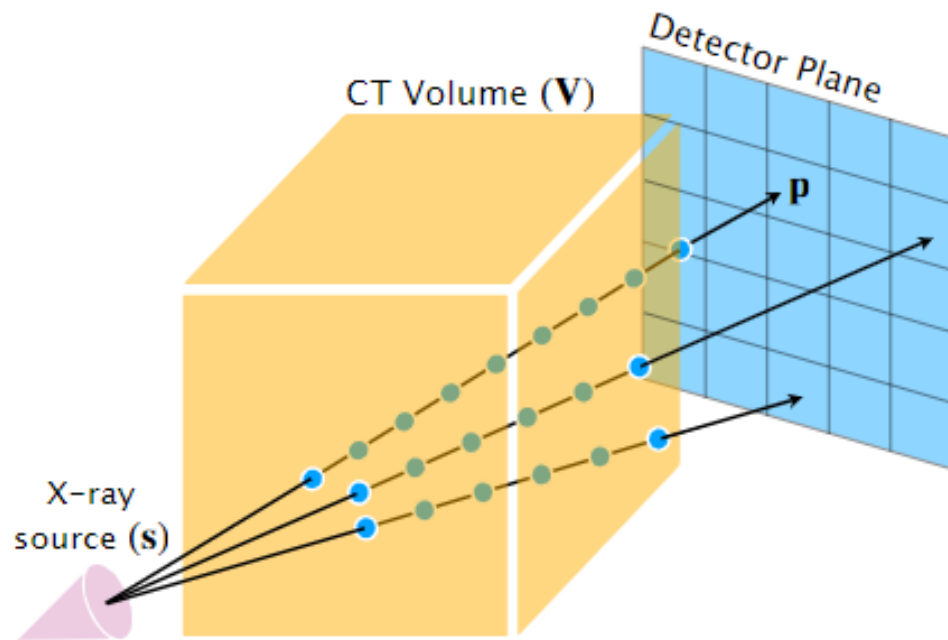

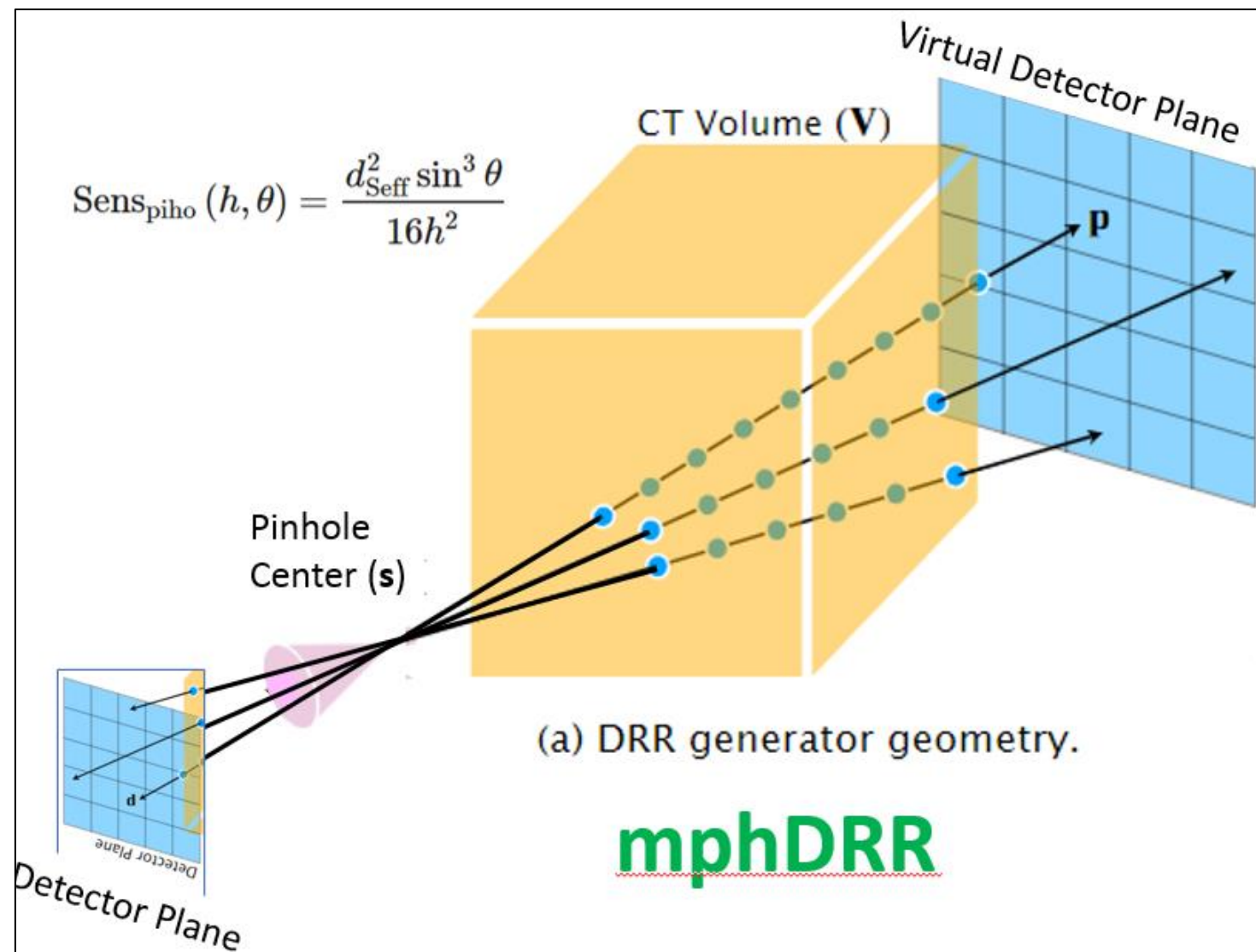CT Volume (V)

Detector Plane

p

X-ray source (**s**)

(a) DRR generator geometry.

Gopalakrishnan, V. and Golland, P., 2022, September. Fast auto-differentiable digitally reconstructed radiographs for solving inverse problems in intraoperative imaging. In *Workshop on Clinical Image-Based Procedures* (pp. 1-11). Cham: Springer Nature Switzerland.

Fig 1a: X-ray DRR system geometry

$$\text{Sens}_{\text{piho}}(h, \theta) = \frac{d_{\text{Seff}}^2 \sin^3 \theta}{16 h^2}$$

Virtual Detector Plane

CT Volume (V)

p

Pinhole Center (**s**)

d

Detector Plane

Detector Plane

(a) DRR generator geometry.

mphDRR

Fig 1b: Multiple Pinhole SPECT DRR system geometry