Geometry parameters for 2x1 sensors in quad
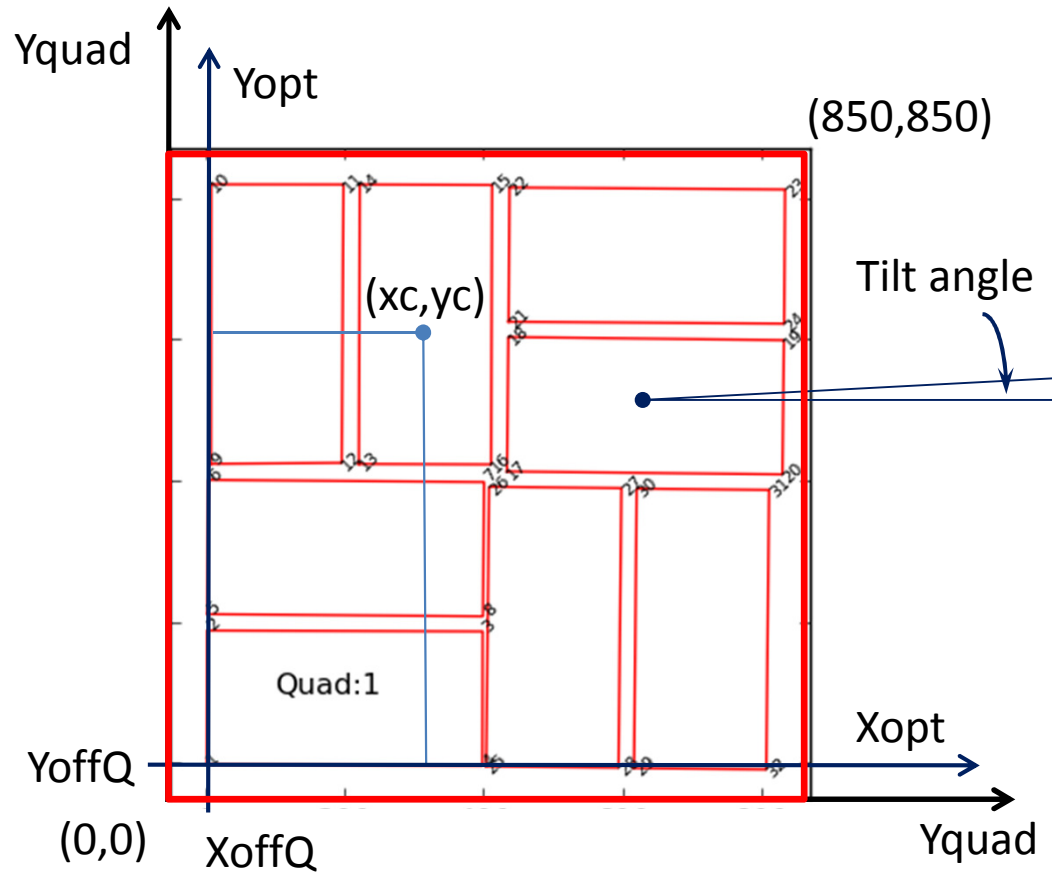
- **center**: (xc, yc) – 2x1 center in optical measurements frame
- **tilt**: Tilt angle of 2x1 in optical measurements frame
- **marg_gap_shift**: XoffQ, YoffQ - offset of optical frame in quad frame (to keep all numbers positive)
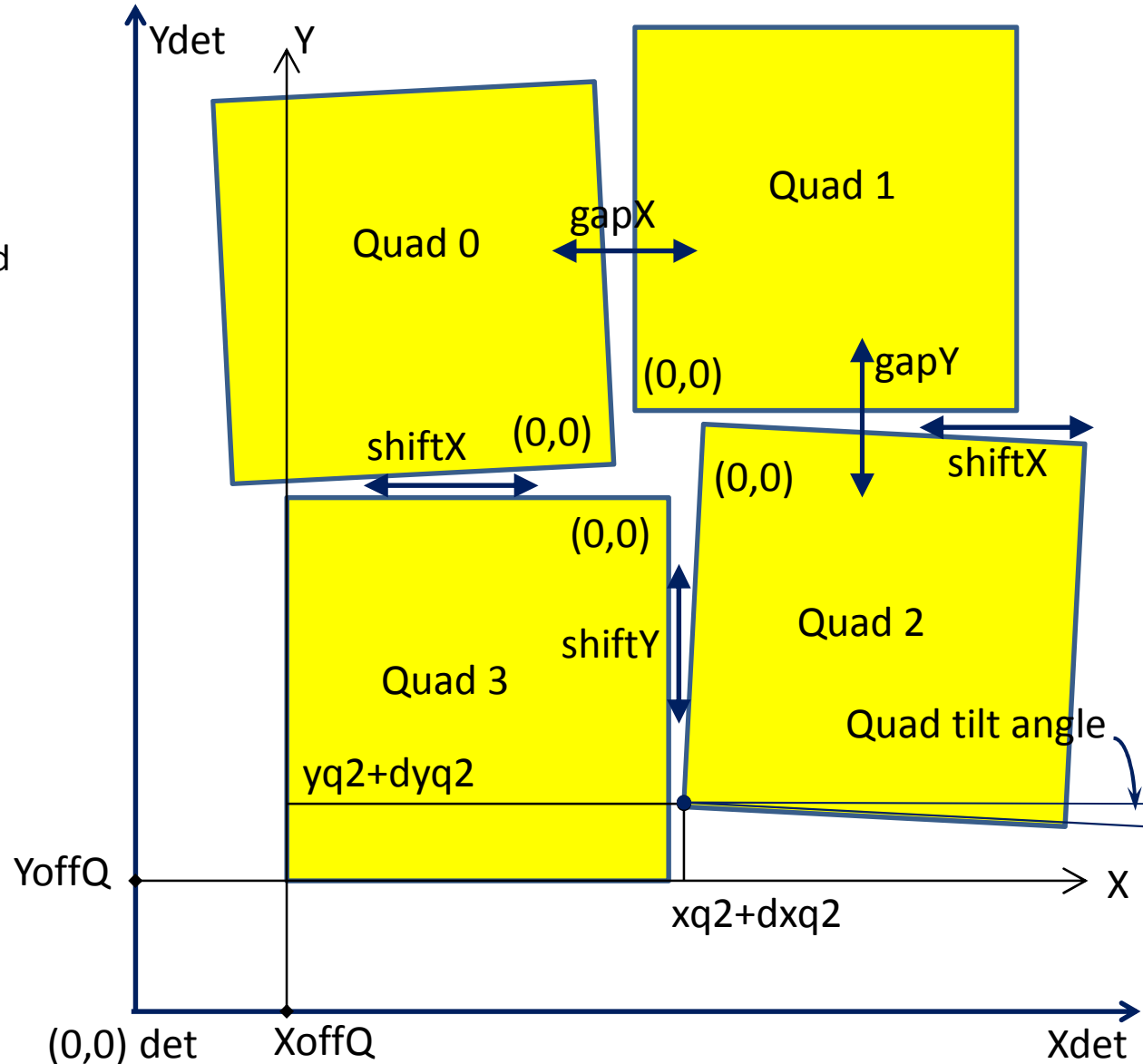
Positioning quads in detector

offset+offset_corr: $(xqn+dzqn, yqn+dyqn)$ – quad position in (X,Y) frame

tilt_quad: Tilt angle of the quad in (X,Y) frame

marg_gap_shift:
- XoffD, YoffD - offset of the quad frame in the detector frame (to keep all numbers positive)
- gapX, gapY – adjust space between quads in X and Y directions
- shiftX, shiftY – adjust shift between quads in X and Y directions

Geometry parameters for 2x1 sensors in CSPAD

- **center_global**: (xc, yc) – 2x1 center in detector frame (to keep all numbers positive)

- **tilt**: Tilt angle of 2x1 in optical measurements frame