## Coplanarity Constraint

If  $F = K^{-T}[+]_{x}RK^{-1}$  then,  $X^{-T}FX'' = 0$ .

K' and K" are intrisic matrices.

R is the rotation with respect to camera 1. We also know  $E = R[H]_X$ ,

Then  $X^T = X^T = 0$ .

× and ×" are image coordinates.

1 means camera 1. O and 2 are coplanarity constraints. "means camera 2.

Coplanarity constraint means that I same points in reality x'and X" mean that equations () and (2) must hold true. Remember E is rotation and translation.

Object

Cam 1

Cam 1

This means that  $x'''R[t]_{xx''}=0$