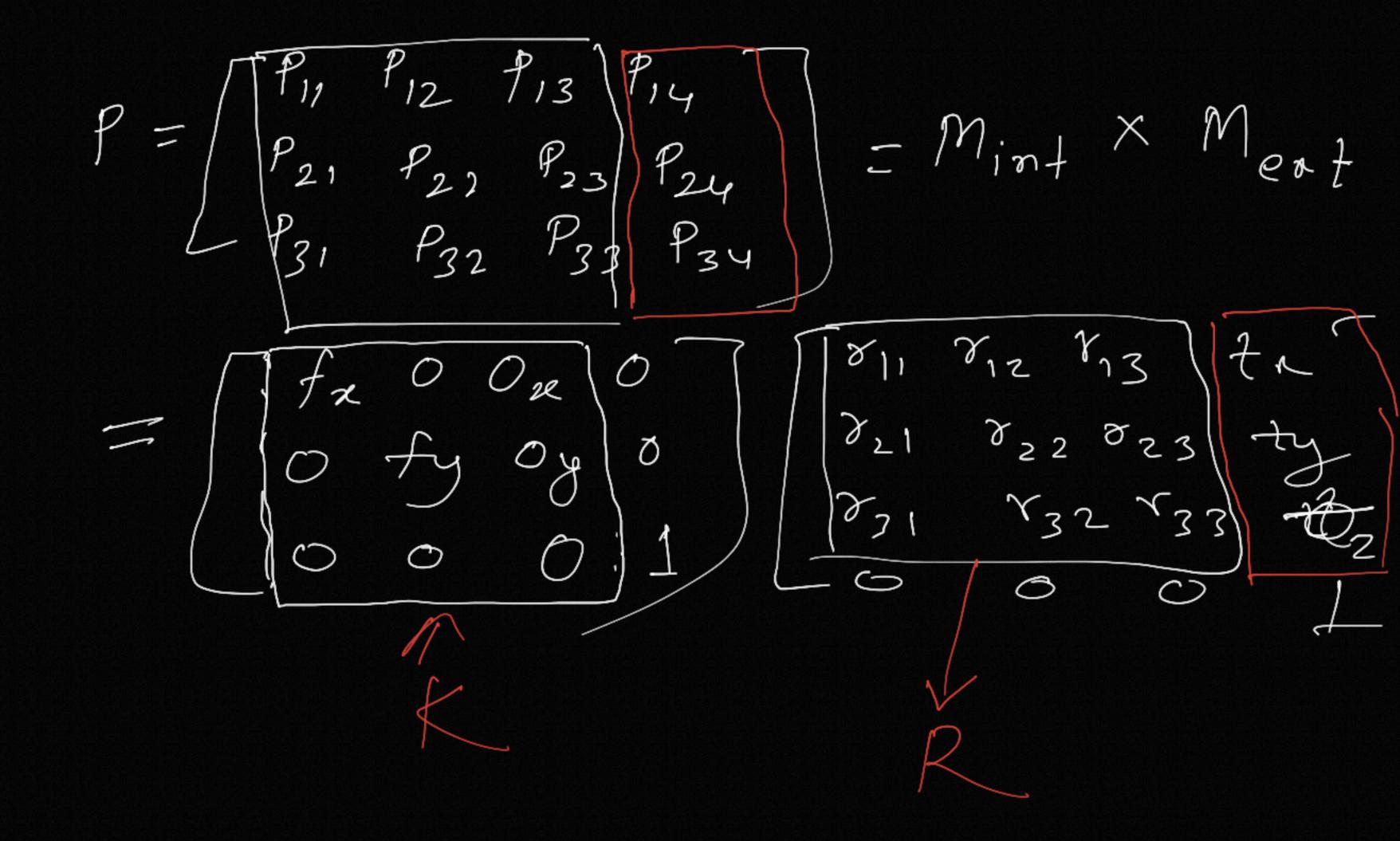
Camera Parameters



$$\begin{bmatrix}
P_{11} & P_{12} & P_{13} \\
P_{21} & P_{22} & P_{23} \\
P_{31} & P_{32} & P_{33}
\end{bmatrix} = \begin{bmatrix}
K \times R \\
F_{14} \\
F_{24} \\
F_{34}
\end{bmatrix}$$

$$= K \times T \Rightarrow T = K^{-1} \begin{bmatrix}
P_{14} \\
P_{24} \\
P_{34}
\end{bmatrix}$$

K = [fa 0 0x] = Upper Triangular Matrix

Lo 0 1] P = Orthogonal Matrix.

 $\frac{\partial R Decomposition}{A = B \times C} - Linear$ $A = B \times C - Linear$ A Ligebra

6

Can we find 3D-point in the Break World from 2D-point in an image.

 $u = f_{x} \frac{z_{c}}{z_{c}} + 0_{z}, v = f_{y} \frac{z_{c}}{z_{c}} + 0_{y}$ $x = \frac{Z}{f_x} (u - o_x), y = \frac{Z}{f_y} (v - o_y)$ Z > 0

In the left image Jul=fz=2+0x, Ve=fy=2+0y $(u_{y} = f_{x} \cdot \frac{2C - b}{2} + 0_{x}, V_{y} = f \cdot \frac{2}{2} + 0_{y}$ $\kappa = \frac{b(U_l - O_x)}{y} = \frac{bf_a(V_l - O_y)}{y}$ fy (U2-40) Up - Ur $Z = \frac{bfx}{U_Q - U_Y}$ -> Desth -> Disposity

When Stores matching many fail? White paper DDD DDD 2 Brightness/word Pires Homography for steres matehing 9

Geometry - m. V. Geometry

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