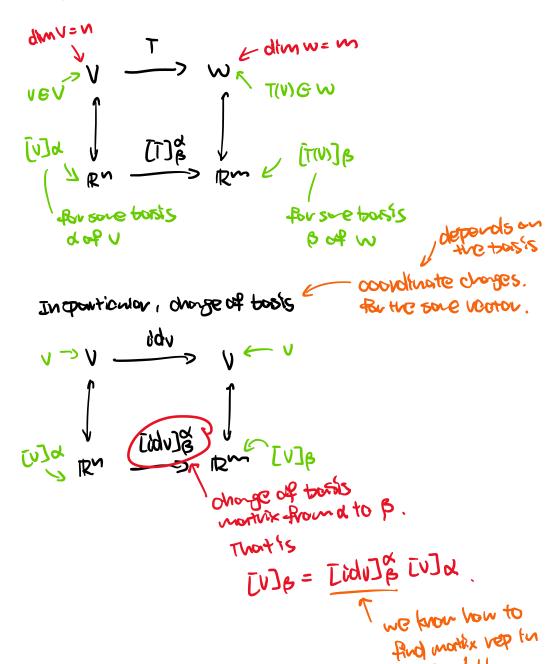
Review_of_matrix_representation_and_change_of_coordinates

Thursday, June 17, 2021 11



Example: And the drogs of coordinate matrix that droges the coordinate in the topics 1, 1+t in IP(IR) to the coordinate in the bosis 1-t, 2t in IP(IR)

$$\begin{array}{ll}
\mathbb{P}_{i}^{2} & d = (1, 1+t), \beta = (1-t, 2t) \\
\begin{bmatrix} id P_{i}(R) \end{bmatrix}_{\beta}^{2} = \begin{bmatrix} id(1) \end{bmatrix}_{\beta} \begin{bmatrix} id(1+t) \end{bmatrix}_{\beta} & \text{ty def of } \\
& \text{worthis representation.} \\
& = \begin{bmatrix} (1]_{\beta} & [1+t]_{\beta} \end{bmatrix} \\
& \text{(where } 1 = 1 \cdot (1-t) + \frac{1}{2}(2t), \text{ out } [1]_{\beta} = \left(\frac{1}{2}\right) \\
& \text{If } t = 1 \cdot (1-t) + 1 \cdot (2t), \text{ out } [1+t]_{\beta} = \left(\frac{1}{1}\right) \\
& \text{SIT} \begin{pmatrix} 1 & 1 \\ 2 & 1 \end{pmatrix} & \text{is the charge of coordinate motion.} \\
& \frac{1}{2} & 1 \end{pmatrix} & \text{form d to } \beta & \text{top.} \\
\end{array}$$