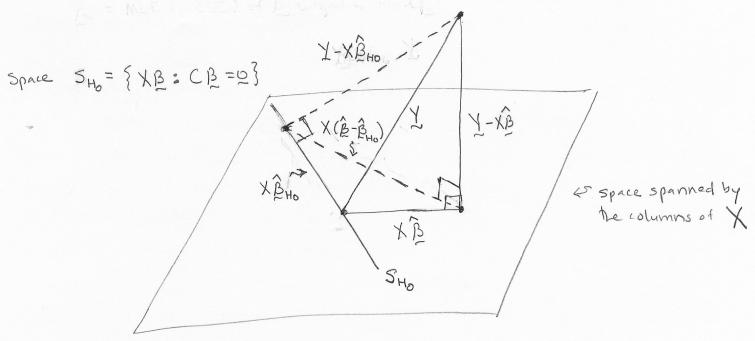
Ho: CB = 0 or Ho: M=M2= ... = Mg

B= MLE (or LSE) of B subject to Ho: CB=0



$$\frac{1}{1} X - X \hat{\beta} |_{S}^{2} + \|X (\hat{\beta} - \hat{\beta}_{H_{0}})\|_{S}^{2} = \|X (\hat{\beta} - \hat{\beta}_{H_{0}})\|_{S}^{2} \\
+ \|X (\hat{\beta} - \hat{\beta}_{H_{0}})\|_{S}^{2} = \|X (\hat{\beta} - \hat{\beta}_{H_{0}})\|_{S}^{2} \\
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$$\hat{\beta}_{H_{0}} = \hat{\beta}_{S} + (X, X)_{S} (\hat{\beta}_{S} - \hat{\beta}_{H_{0}})\|_{S}^{2} = \|X (\hat{\beta} - \hat{\beta}_{H_{0}})\|_{S}^{2}$$

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