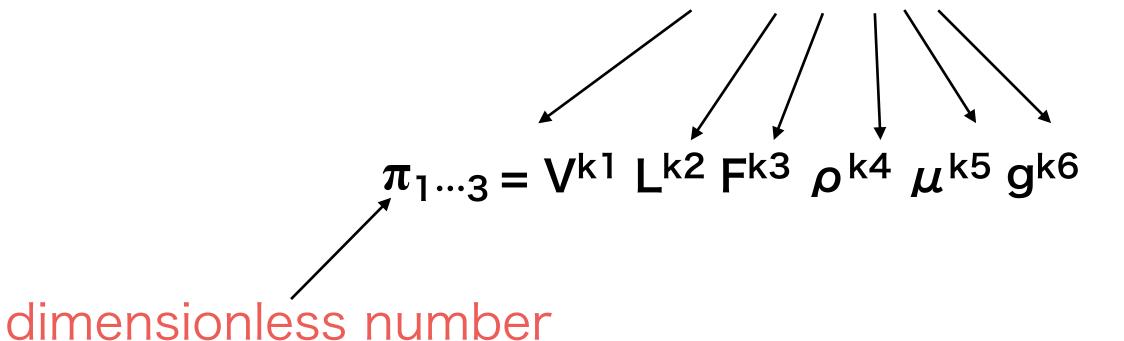
Physical modelling: laboratory models



• Each of the product will have the form given by the expression:

exponents to be determined



Physical modelling: laboratory models



Substitution of the fundamental units for each variables gives

$$\pi_{1..3} = [LT^{-1}]^{k1} L^{k2} [MLT^{-2}]^{k3} [ML^{-3}]^{k4} [ML^{-1}T^{-1}]^{k5} [LT^{-2}]^{k6}$$

$$\pi_{1..3} = [L]^{k_1+k_2+k_3-3k_4-k_5+k_6}[T]^{-k_1-2k_3-k_5-2k_6}[M]^{k_3+k_4+k_5}$$

 Notice the coefficients of the k values correspond to the values in the dimensional matrix.