" cresh commandian " immentum conservation"

means SAE-0 and SAP -0

< Traf()

Total momentum: <m1.V1: ,0,0>

(m) > (v=< v,i,0,0) V=<0,0,0)

Total energy = Im, Viz

therefore, how we have the following countions,

m, vi = m, vicosontus vi coso o 立m1/1;2= 左m1/42+左m2/40人 0 = M, Vit sind - Me Vat sing 4 this will be usted.

There will be used.

> MITVIT = MITVITCSTO + MITVIT BOSS + 2 MIMINING VIF VIF COST OST m, = Vi; = m, = Vif + m, m, Vyf , (Subdition)

0 = M12V18 = Six 0 + V2f (M1 M2-M2 cos) - 2 M1 M2V18 V2 cos cos 0

(Find)

() Cosp + V = < V4 cosp , V4 sinp , 0>

Total momentum = < m1. Vif 050, m1. Vif sind, 0>

= < m, Vit coso + m2 Vag cosp, m1. Vit sin0 - m2 Vagsing, o> +<m2. Vat cody - m2 Vat singly o>

total Energy = = = m, vif + = ma vig

MIVIF SIND = MIVIF SIND Mily sind = sing

Now, it's that to get the answers, Using (3) (2) md (2) /snv Using (1) and the value of O, minit sind = millit caso. slup + millit sino. coop tang = (1-100). SIND = SIND. COSB = m, vif sind - Marging sing VI-008 - 1. 1tax6 Sino CCSO= 1- 2- M12V182 fly, w チンプナ V2+2018 野学会 Sing 2+2cap (+cox6) B = SIN-1/ m, Vif 11+c=50 1 0x0-Which means / sing = Sin cost 1-1 m2 1/2 P= ces 1200 2+2038 (Ruswers!

MIVIT = MIVIT COSO + MINITED COSP

AVK (