Lv = latent load vegeonisation) DV = RVT [ideal gas law] Clausius - Clapayon equation (all tenow).

Ls = latest least sublination = 2.8 × 1067 kg esw = 610.7 e (Ex (273.15 - +) -> Saturation vapour pressure over liqued why puthing liquid in cloud charler -> Salwation Vapour pressent over (co cenes as to salwake. [Kr. (273.15 - +)] esi = 610.7 e

salmedren ratio in

-> sahnation ratio and wit liquid water

> sat, lat. with ice. Supersahmation: - Stight See- 1 Sequired for waln 5, : 6

1-18:5

If I calculate the Ws at two levels that will give adulatic LWMR E = Rg = 0.622 which it you take away from which? ALWMR = Ws,1 - Ws,2 - - - sklelondbone 2 some level 2 A pperox. Ex610.70 (2.8×106 (4)) 11 (273.15 - 11.65) Ws; = Ex610.7e 461 (273.15 280.15) 6-93×10-3 7-36×10-8 kg kg-1 6-17×10-3 6-7×10 890×102 6-41×10-3 129 129-1 900×102 WSI - WS2 = 0.8×103 Bott X10-5 A los web purge Example: - You my. Ws = EesCT)

.

Record at that surfaces Q1. what is mersure level. Why is water in tube below and hier Why dos the pin shay a flad? Steel is claused that water and the principle of wester. Any ideas on how I could calculate AP from shape? What would I need? Archandois - No! - Lake ensuers Derive of. molecules are altracted to each other. DP>0

consider a capillay tube - why? - turn out to be relevent

- turns out to be ve levent

SFp = DP r2sinododp

but we want component in 2 dis is of pre = APR 125in B 60 d g x cos B

A 12 20

Spp2 = ΔPe r2sin θ 60 d φ x cos θ 2th Th2 Th2 ΔPer2 sin θ cod β β=0 0=0

I APTIZ

12 pt 12 = 2416 12 pt - 20

Pressure inside drop Lablae pressure.

total pressure out side tube at hi total prvessure at his side fube: hydrostatic relation for vaporien = eo + Segh (Pegh weight) en = 6/+(ev -9) + APc -2 6 + Pegh = 8 6 4 + 12 Pc Combine (0 + (2) & es « ev of Rotget - Cockp (gh) 1 N N N N ev = COCXP (PERVT (A) :-(3) : Capillary tubes - why? it time out to be relocat. Vapour pressure regained to support small a fea william Thompson. Kelvins equation - wained? 1 APe e, = eo exp (20) drops depends on size? Ligard Sal APc

R. M. S. C.

Key points.

- Saturation vapor pressure over liquid (unter)

Saburation vopos pressure over ice

Saturation ratio & super-saturation of water vapour

Why size is importent for the growth of across particles into cloud drops - Kelviu's equation.