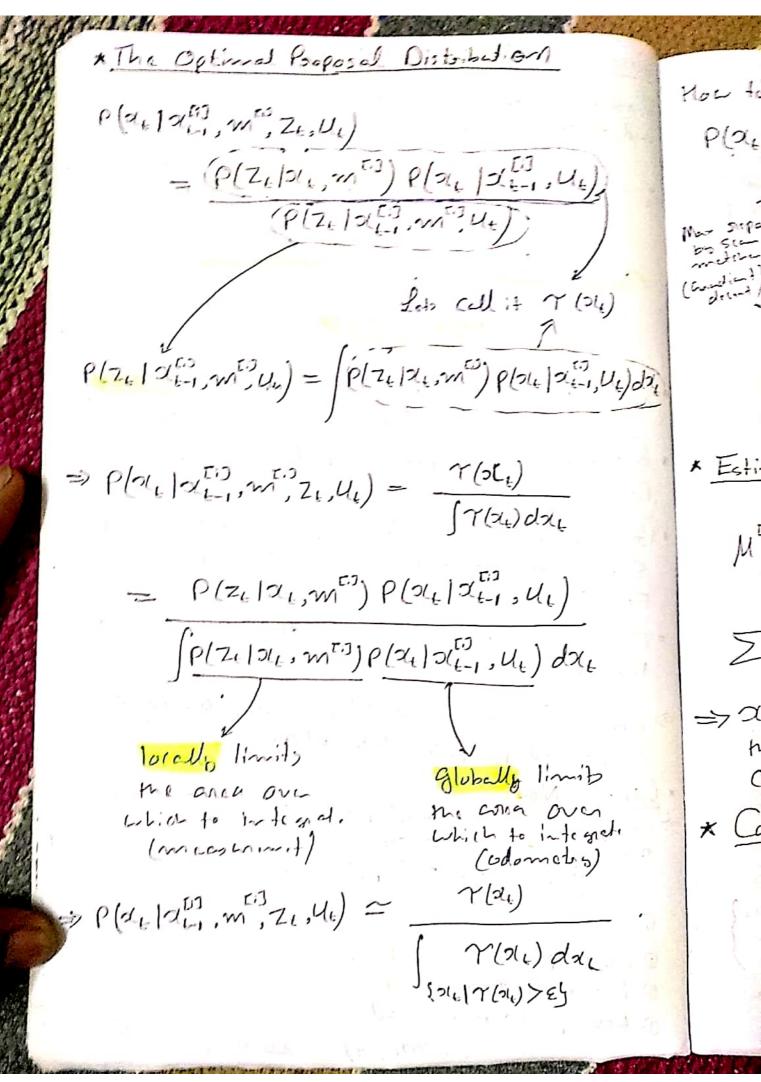
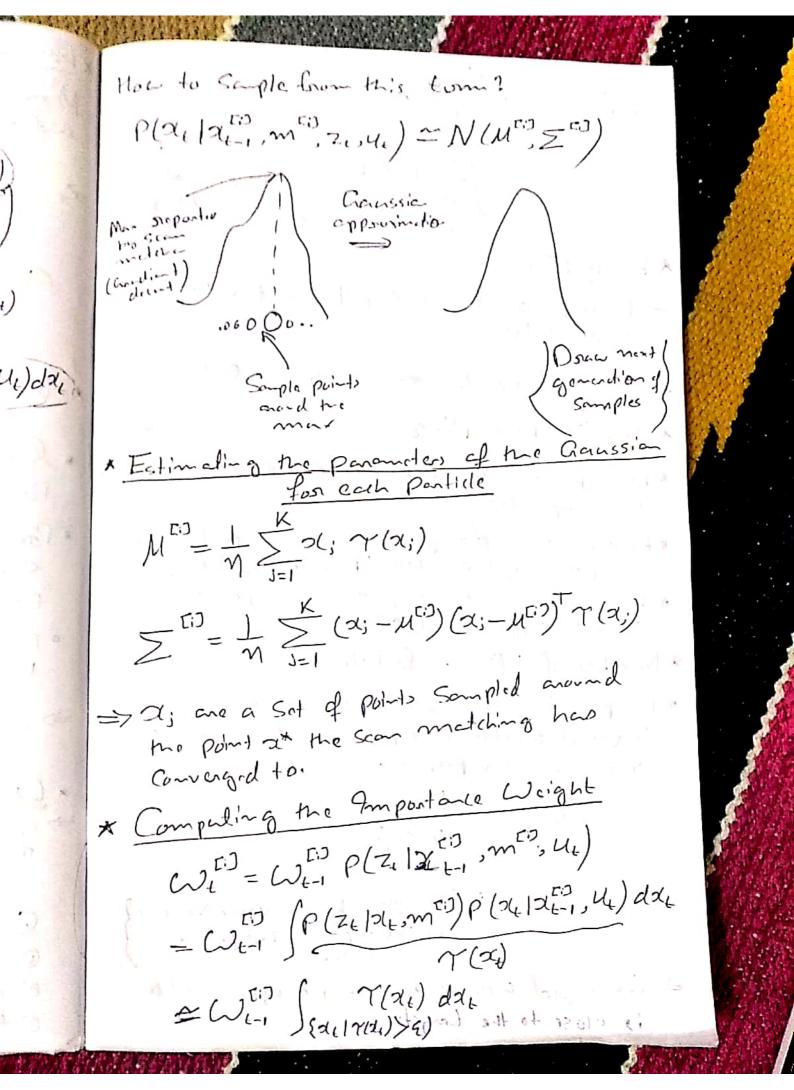
* Pose Maxin and n $x_t = a$ Cin * Gri · Scan Poso · Pore -Sca [-cs] P Fou Mi => Ca i~ * Wh => Co~ 120 500 ON

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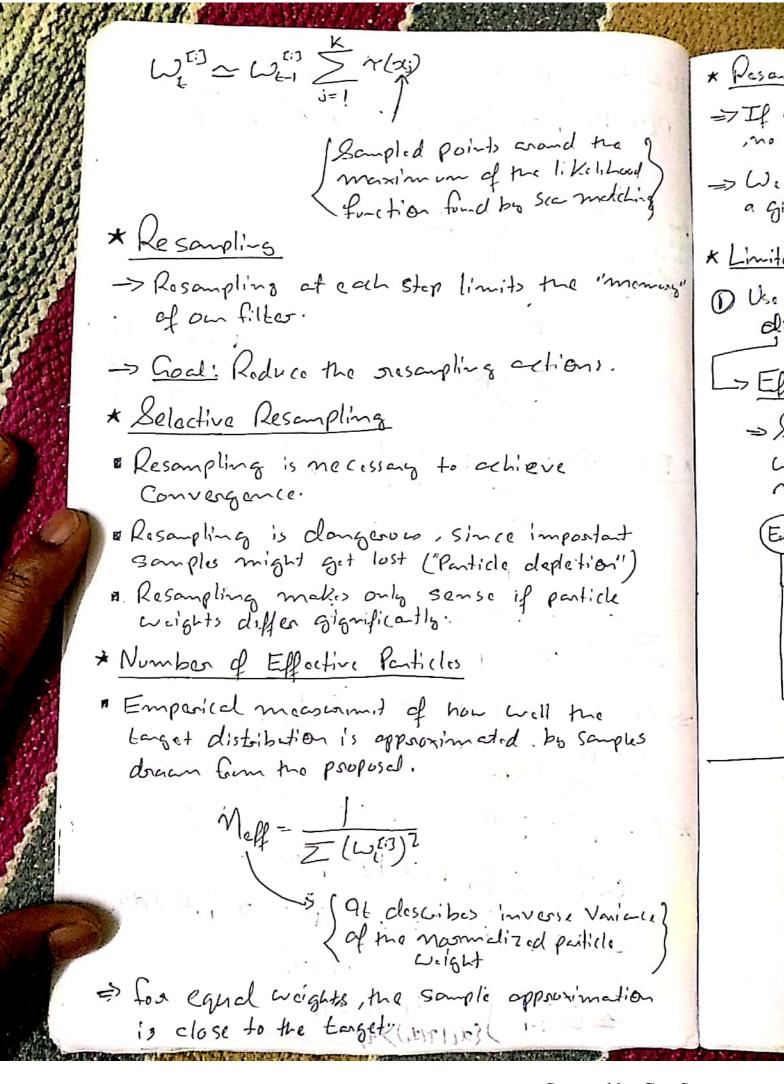
O L

* Pose connection with Scan Matching ellizad Maximize the likelihood of the Coment pose and map orelative to the privious pose and map. = angmax {P(Z+ 1)(+, m+-1) P(O(+ 1 U+-1, x+-1)} subot motion Consent macounit map Constructed Su for * Graid - Based · Fost SLAM with Improved (2003) Odomotry con · Scan-matching provides a locally Consistent peth) Posa Comaction. allized · Pore - Cornect Short odometry Seguences asing Scan-matching and use them as imput to Fost SLAM. Fower particles are needed, since the error in the imput is smulling. 100. => Can be seen as an ad-hoc Solution to an improved proposed distribution. => Compute an improved proposal that considers ile-tla the most orecord observation. XEN ~ P(21 | X [ind-1, U11, Z116) Goals O Mone procise sampling. @ Mosie occimate mops. B Less particles mooded.





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* Resampling with Megy in o oresampling is morded. Leed child a Given thoroshold (N/h) Mely doops below * Limitchion 1) Use of Chaussian to approximate proposal distribution. L> Efficient Multi-Modal Samplins - Sample from odometry first and them Use this as the Start point for Scann modeling. (Effects) -> Allows for better modeling multi-model likelihood furtion (high KLD values do not occur). -> Minimal computational overhead. ples lian