Upm > fs(xm)= TT

De(xm) fs

In the loller of for all factors

Johns our related to 2m, other than fs Al a let via barrable notes, ils merrage to a variable  $M_F \rightarrow \chi(\chi) = f(\chi)$ A noch han send out a merrage if all the necessary by messages that have survived. Once all necessary get sent out, the marginal probabilities see can be computed as the following, p(x)&T uf => 20(x) Computational pranquial of the set of parentles x since lovel is a factor of s. p(xs) & fs(xs) of 4, ->f(x) The joint probability of a sight note is and all the drived nodes when we multiply the necessages some coming to 2: 10

early observed by normalization = P(x, X0) Ex 1 R(x1, X0) the ty factor graph contains to tree there is not guarantee the algorithm will have converge.