

Local Message Passing on Frustrated Systems Luca Schmid, Joshua Brenk, Laurent Schmalen





SPONSORED BY THE

Federal Ministry of Education and Research





 $, \alpha \in \mathbb{R}^+$

KL
$$\left(\sum_{x_n} b_{n,m}(x_n, x_m) \Big\| b_m(x_m)\right)$$

$$= 1, \ldots, N$$

Algo.	Loss	\mathcal{L}_{KL}	$\mathcal{L}_{\mathbb{L}}$
SPA	-	0.087	0.30
cycBP _e	\mathcal{L}_{KL}	0.040	0.17
cycBP	\mathcal{L}_{KL}	0.014	0.48
cycBP _e	\mathcal{L}_{Bethe}	0.030	0.11
cycBP	\mathcal{L}_{Bethe}	0.027	0.027

www.kit.edu