Normalizability of the Gibbs measures associated with multivariate version of $P(\Phi)_2$ model

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We consider the Gibbs measures associated with multivariate version of $P(\Phi)_2$ model on the two dimensional torus. We observe the (non-)normalizability of the measures by the variational method introduced by Barashkov and Gubinelli. We also consider some variants of the model such as the Gibbs measures tamed by Wick ordered L^2 norm.