Supplements for "Generalized tensor-response model with multi-sided covariates"

1 Proofs

Proof of Theorem 1. The following property shows that Bernoulli distribution belongs to the sub-Gaussian family with a subgaussianity parameter σ equal to 1/4. Suppose $x \sim \text{Bernoulli}(p)$, then $x \sim \text{sub-Gaussian}(\frac{1}{4})$.