Lemma 1: Bayes Risks of L and L|_R2 are equal

Theorem 1: A cell complex is affinely equivalent to a convex polyhedron if and only if it is a power diagram.

Prop 1: L embeds ell iff L = ell

Lemma 6: Negative Bayes risk is polyhedral and projection forms power diagram

Lemma 2: Power diagram induced by (full support) convex combination of polyhedral functions is same

Theorem 3: Every discrete ell embedded by polyhedral loss

Lemma 5: property embedding implies loss embedding

Prop 2: L embeds discrete loss iff L polyhedral

Lemma 3: Range of (property elicited by polyhedral loss) is finite set of closed polyhedra

Lemma 4: L polyhedral implies L polyhedral

Lemma 7: Embedding property implies level sets are same up to trim

Theorem 2: Every polyhedral L embeds a discrete loss

Prop 3: TFAE: Embed finite prop, trim finite, finite set of FDLS

Theorem 4: Embedding implies calibration

Theorem 5: Poly loss embeds finite prop. Moreover, poly loss indirectly elicits prop iff it embeds a property refining the original

Theorem 6: Poly loss indirectly elicits implies consistent

Section 3: Embeddings and Polyhedral Losses

Section 4: Consistency via Calibrated links

Section 5: Embedding Properties (rename)