



Figure 1: The figure shows a parameter-space configuration such that, for all the axion couplings λ_r (cyan), the projections of the orthogonal couplings λ_r^\perp (fading cyan) on all potential couplings γ_i (teal) are non-negative. The minimal-distance vector γ_∞ (purple) from the origin to the potential convex hull (orange) is also shown. An orthogonal coordinate system is also shown to facilitate identifying right angles.