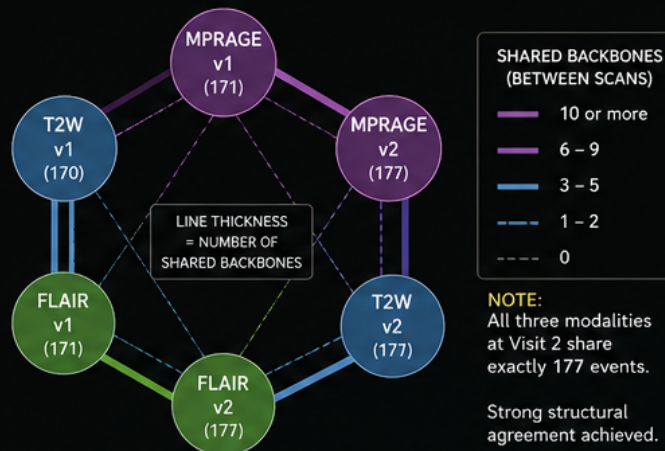


KIRBY 6-PACK QSFP SU(2) CASIMIR ANALYSIS — MILESTONE: CROSS-MODALITY INVARIANT BACKBONES

A. SIX-SCAN CONSTELLATION (SHARED BACKBONES)



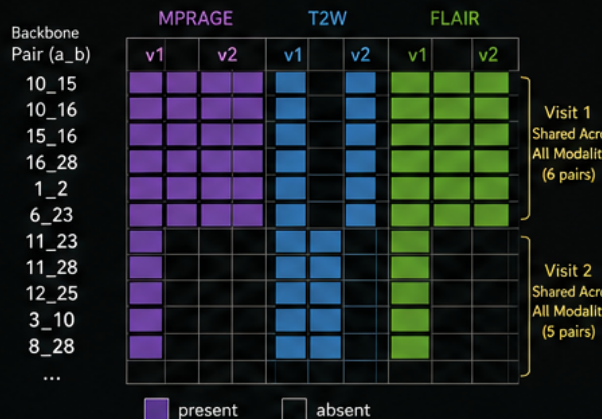
B. SUMMARY TABLE (EVENT & PAIR COUNTS)

visit	modality	nNT	nTF (events)	nPairs (PairBackbone)	nHotMotifs
visit1	MPRAGE	30	171	82	171
visit2	MPRAGE	30	177	79	177
visit1	T2W	30	170	73	170
visit2	T2W	30	177	83	177
visit1	FLAIR	30	171	81	171
visit2	FLAIR	30	177	89	177

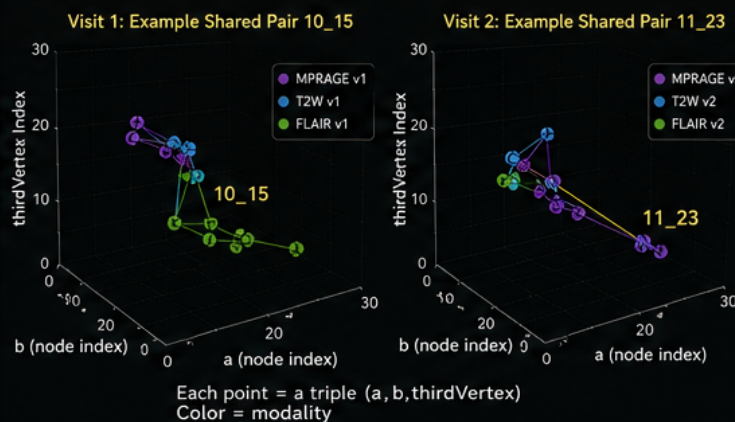
C. CROSS-COMPARISON (EVENT & PAIR DIFFERENCES)

comparison	Δ TF (events)	Δ pairs (PairBackbone)
crossVisit_MPRAGE	+6	+3
crossVisit_T2W	+7	+10
crossVisit_FLAIR	+6	+8
visit1_MPRAGE_vs_T2W	+1	+9
visit1_MPRAGE_vs_FLAIR	0	+1
visit1_T2W_vs_FLAIR	+1	+8
visit2_MPRAGE_vs_T2W	0	+4
visit2_MPRAGE_vs_FLAIR	0	+10
visit2_T2W_vs_FLAIR	0	+6

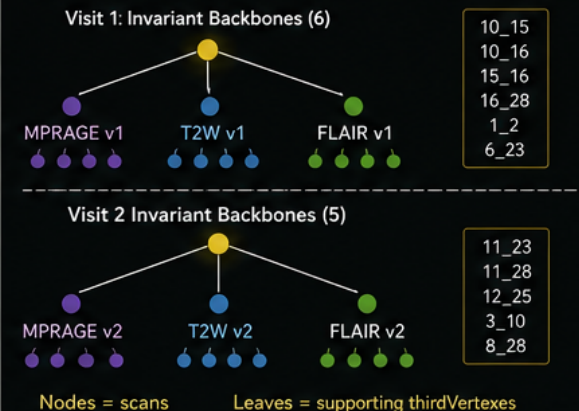
D. PAIR PERSISTENCE MATRIX (PRESENCE ACROSS 6 SCANS)



E. CONSTELLATION PLOTS (a, b, thirdVertex)



F. BACKBONE SURVIVAL TREE (ACROSS VISITS & MODALITIES)



G. OPERATOR/INVARIANCE BADGE DASHBOARD (AGGREGATE ACROSS 6 SCANS)

