

Ten Predictions, Each Graded Before the Data Arrive

What this paper is willing to be wrong about. Ten numbered predictions, each carrying the grade that says how strongly it is claimed: [T] a theorem, which falls with its theorem; [D*] derived subject to the condition printed beside it; [M] one of a finite listed menu; [E] somebody else's number this paper consumes. Four grades and no unlabeled rows, because mixing the four is how a prediction list comes to look stronger than it is. The rates and the branching fingerprint are what the LHC can reach with data already on tape; the interference sign is a theorem of the geometry and the tree-level leptophobia a theorem of the charge assignment; a wrong-sign line shape retires the first, and a dilepton line from the Dirichlet vectors above the registered loop floor retires the second. Nothing here was written after the data. In full: Table 31, p. 169.

Id	Prediction	Grade
P-KK-1	$\sigma \times \text{BR}(g^* \rightarrow t\bar{t}) = 8.7 [7.0\text{--}12] \text{ fb at } 13 \text{ TeV}; 13.6 [11\text{--}19] \text{ fb at } 14 \text{ TeV};$ $\approx 2.8 \text{ pb at } 85 \text{ TeV}$	[D*]
P-KK-2	Octet branching fingerprint $t\bar{t} : b\bar{b} : jj \approx 70 : 3.5 : 1$; $\text{BR}(t\bar{t}) =$ $0.94 [0.93\text{--}0.95]$	[D*]
P-KK-3	Graviton pattern $t\bar{t} : W_L W_L : Z_L Z_L : hh = 0.69 : 0.15 : 0.08 : 0.08$, $\Gamma/m = 6.3\%$ (template normalization; 2.7% on the geometry's k , O-KK-66), $\sigma(85 \text{ TeV}) \approx 0.21 \text{ pb}$	[D*]
P-KK-4	Interference sign: enhancement below the pole, deficit above; SM crossing at $\simeq 4.9 \text{ TeV}$; centroid pull $-\mathcal{O}(100) \text{ GeV}$	[T]
P-KK-5	Top polarization $P_t = +0.91$, band $[+0.88, +0.92]$; resonant $A_{FB} = 0$ from u, d, s, c (the chiral $b\bar{b}$ channel at the percent level)	[D*] on P_t (cascade band); [D*] on A_{FB} (one UV profile)
P-KK-6	Tree-level leptophobia, with a registered loop floor; $m_{Z'_B} = m_{G_1} = M_{\text{lock}}$ exactly (Dirichlet mode)	[T] on the mass; [M] on the floor
P-KK-7	Angular partners at derived offsets (1.07–1.17 $\times$ the base, free-field), absent from single production by θ -independent currents	[D*] offsets; [M] fiber reading
P-KK-8	Second radial family at $1.831 M_{\text{lock}} = 7.047 \text{ TeV}$ (position; rate estimate $\sim 10 \text{ fb at } 85 \text{ TeV}$)	[T]/[M]
P-KK-9	No radion; Higgs couplings Standard-Model-like apart from $G_1 \rightarrow hh$	[T]
P-KK-10	Lepton-collider verdict: no s -channel line in $\mu^+ \mu^-$ from the Dirichlet vectors or the octet above the registered loop floor; the electroweak KK photon and Z give a line at $\sqrt{s} = M_{\text{lock}}$ whose height is set by the open lepton depth (O-KK-62)	[D*] on the Dirichlet-vector and octet clause; [M] on the line's height