FLAT F-MANIFOLDS FOR SMOOTH PROJECTIVE COMPLETE INTERSECTION VARIETIES

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In this talk, I will explain how to construct formal flat F-manifold structures on the primitive cohomology H of a smooth projective Calabi-Yau complete intersection variety. My strategy is to convert an analysis on H to study on non-isolated hypersurface singularities using the Cayley trick; we associate a dGBV (differential Gerstenhaber-Batalin-Vilkovisky) algebra A to H, and solve its Maurer-Cartan equation in order to construct formal flat F-manifolds.