

**Meeting:** 1003, Atlanta, Georgia, SS 14A, AMS Special Session on D-Modules, I

1003-14-1099      **Charles F Doran\*** ([doran@math.washington.edu](mailto:doran@math.washington.edu)), University of Washington, Department of Mathematics, Box 354350, Seattle, WA 98195-4350, and **Shinobu Hosono**. *GKZ-Systems and Quantum Cohomology D-Modules*. Preliminary report.

The structure of GKZ-hypergeometric systems describing the Gauss-Manin connection for families Calabi-Yau hypersurfaces in Gorenstein toric Fano varieties is related to that of the quantum cohomology D-modules for the toric ambient space via Laplace transform. (Received October 04, 2004)