

1067-17-1808

**Jonathan D Dunbar\*** (jddunbar@ncsu.edu), North Carolina State University, SAS Hall 2108, Campus Box 8205, Raleigh, NC 27695. *On Wakimoto representations of  $\hat{sl}_2$  and  $\mathbf{Z}$ -algebras.* Preliminary report.

We will discuss the Wakimoto representation of the affine Lie algebra  $\hat{sl}_2$  at the critical level. Then, we study the representation of the associated Lepowsky-Wilson  $\mathbf{Z}$ -algebras. This is joint work with Dr. Naihuan Jing and Dr. Kailash Misra. (Received September 22, 2010)