

# **Singularities with respect to Mather-Jacobian discrepancies**

*Shihoko Ishii*  
*University of Tokyo*

The Usual discrepancy of canonical divisors is defined for a normal  $\mathbb{Q}$ -Gorenstein variety and used for classification of singularities from the view point of birational geometry. In the talk I will use Mather-Jacobian discrepancy instead of usual discrepancy and discuss "canonical" and "log-canonical" singularities with respect to this discrepancy. Our interest is also for non- $\mathbb{Q}$ -Gorenstein or even non-normal varieties.