**Se-005** Room: C416 Time: June 9 16:00-16:15

## Non-iterative Time Integration Scheme for the System with Velocity-Dependent Nonlinearity

# Riki Honda [1], Sumio Sawada [1]

[1] DPRI, Kyoto Univ.

A time integration scheme that enables non-iterative computation of the system with velocity-dependent nonlinearity. The scheme is developed based on the non-iterative time integration scheme for the system with displacement dependent nonlinearity. The proposed scheme has the second order accuracy and has unconditional stability when it is applied to the computation of a linear system.