# On Schur multiple zeta-functions

Kohji Matsumoto (Nagoya University)

(A joint work with Maki Nakasuji)

**Schur multiple zeta-functions (SMZF)**:

• a kind of multiple zeta-functions associated with Young tableaux

• introduced in a paper by M. Nakasuji, O. Phuksuwan and Y. Yamasaki (Advances in Math. **333** (2018), 570–619)

• studied extensively in recent years by Nakasuji, Yamasaki, H. Bachmann, S. Charlton, Y. Ohno, W. Takeda, K.M. and so on

**Today**: we will report

(1) The definition of SMZF and known results,

(2) Some new formulas on the expression of SMZF, obtained in a joint work with Nakasuji

$$\begin{array}{|c|c|c|c|}
\hline
s_{00} & s_{10} & \cdots & s_{k'_\mu 0} \\
\hline
\end{array}$$

$$\begin{array}{|c|}
\hline
s_{k'0} \\
\hline
\vdots \\
\hline
s_{k''_\mu 0} \\
\hline
s_{k_\mu 0} \\
\hline
\end{array}$$

$$\begin{array}{|c|c|c|c|}
\hline
s_{k0} & s_{k1} & \cdots & s_{k\nu} \\
\hline
\end{array}$$

$$\begin{array}{|c|}
\hline
s_{k'0} \\
\hline
\vdots \\
\hline
s_{k_\mu 0} \\
\hline
\end{array}$$

# THANK YOU!!!