



**Office:** Rm 302 in Math. Bldg.

**Telephone:** +81 (0)52-789-2548 (ext. 2548)

**E-mail:** gyoja@math.nagoya-u.ac.jp

**Membership of academic societies:**

MSJ (The Mathematical Society of Japan)

### Research Interest:

- Representation Theory

### Research Summary:

In the first step of my research (1985 [1]–1998 [2]) I studied the Fourier transform of complex powers of relative invariants of prehomogeneous vector spaces and its analogue over other base fields.

As the next step I try to classify prehomogeneous vector spaces, having in mind the Minimal Model Project (S.Mori ...) in the birational geometry and the theory of character sheaves (G.Lusztig ...).

### Major Publications:

- [1] A. Gyoja, N. Kawanaka: Gauss sums of prehomogeneous vector spaces, Proc. Japan Acad. **61** (1985), 19–22.
- [2] J. Denef, A. Gyoja: Character sums associated to prehomogeneous vector spaces, Compositio Math. **113** (1998), no. 3, 273–346.

### Education and Appointments:

1998 Professor, Nagoya University

**Message to Prospective Students:**