1. **Name** Tomohide Terasoma

2. **Research field** Algebraic Geometry

3. **Key word** Period integral, Hodge structure, Algebraic cycle, Motif

4. **Present research** I am studing invariants of algebraic varieties related to period integrals and algebraic cycles. To study these objects, we use differential equations, special funtion arising form priod integral, zeta and L functions of varieties. Recently I am interested in homotopical invariants of algebraic varieties which is a refinement of homological ones.

5. **Notice for the students.** The basic algebra and geometry such as commuative algebra and cohomology theories of algebraic varieties are necessary to begin research. I hope that the students are familiar to these objects and have skill of managing them.