

## 複素アダマール行列の association schemes による構成と諸問題

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Recently, we classified type-II matrices attached to some association schemes. We have 6 infinite families of type-II matrices, among which are 4 families of our complex Hadamard matrices. To check whether our complex Hadamard matrices are inequivalent to the tensor product of known examples, we introduce the Haagerup set for type-II matrices and the Nomura algebra for our complex Hadamard matrices. In this talk, we mainly present how to compute the Haagerup set and the Nomura algebra for our complex Hadamard matrices. This is based on a joint work with Akihiro Munemasa.