

FMfI2023 Poster Session

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Poster title	Integrable Structure of the Overlap of the non-Hermitian Random Matrices
Abstract	As widely known, a non-Hermitian matrix features distinct left and right eigenvectors, which form a bi-orthogonal system. We study the determinantal structures of the k -th conditional expectation of the overlaps for the induced Ginibre unitary ensemble (IGinUE) and induced spherical unitary ensemble (ISUE) and their scaling limits depending on spectral parameters.
Short Bio	Kohei Noda is a Ph.D. student at Joint Graduate School of Mathematics for Innovation, Kyushu University. His research interests are random matrix theory and the statistical mechanics of Coulomb systems. He is currently focused on investigating the overlap defined by the left and right eigenvectors of non-Hermitian random matrices, which is related to integrable systems such as orthogonal polynomials and skew-orthogonal polynomials.