

## **From the Euler operator to multivariate Meixner-Pollaczek polynomials**

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We will show a construction of the Meixner-Pollaczek polynomials in a natural framework of representation theory. We then give the generating functions, difference operators, integral representations and determinant expressions (for the multivariate cases) of the polynomials. In the final part of the talk, we would like to introduce an application of some stochastic process.

Most of the talk is based on the joint work with Jacques Faraut (Paris)

(Remark: There is a joint paper in MathArXiv on part of these subjects. But, we have been revising the paper a lot, while still it is incomplete.)

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