



# Coloquio Inst-Mat

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## A family of Bell transformations and their applications.

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### **Abstract**

In this talk we will discuss a family of sequence transformations defined by means of partial Bell polynomials. We will review the definition and main properties of these polynomials and will describe our family of transformations at the level of generating functions, inverse relations, and convolution formulas. With appropriate choices of parameters, our family includes transformations that can be used for the enumeration of a large variety of combinatorial objects. Some applications will be illustrated by means of concrete examples.

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