**Title:** Opinion dynamics model revealing yet undetected cognitive biases

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**Abstract:** This talk is about opinion dynamics models suggesting the existence of yet unknown cognitive biases. Indeed, the mathematical analysis establishes that the emergent patterns of the model are due to specific biases in self-evaluation and in evaluation of others. In particular, the positive bias in self-evaluation identified in the model is different from the positive bias identified in the literature in social psychology. We describe a specifically designed experiment that detects this specific bias in human subjects, for the first time. We finally discuss the role of the model in this work, which is revealing phenomena that are almost impossible to imagine without its simulations.

**Keywords**: Opinion dynamics, moment approximation, positive bias, self-enhancement, experiment.

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