

# "DOUBLE TRIPLET STATES AND INTRAMOLECULAR SINGLET FISSION"

## Prof. Dr. Josef Michl

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**December 17, 2021 (Friday)**

**12pm (BRT time) – Google Meet**

### **ORGANIZATION:**

#### Prof. Dr. Antonio Carlos Borin

Instituto de Química, Universidade de São Paulo, SP, Brazil

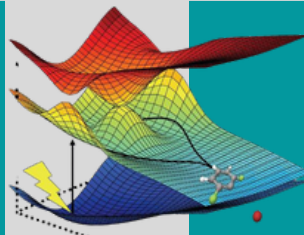
### **INFORMATION AND REGISTRATION:**

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Registration: send a message to [ancborin@iq.usp.br](mailto:ancborin@iq.usp.br)

with the words "Josef Michl – Virtual" on the "subject"

Deadline: December 16, 2021 (Thursday), 06pm (BRT time)



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## ABSTRACT

### "Double Triplet States and Intramolecular Singlet Fission"

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Molecular excited states that can be approximated as singlet-coupled pairs of triplets tend to be silent in absorption spectra but often are important in photochemistry and other processes. They range from those in which the triplets couple very strongly (e.g., 1,3-butadiene) to those in which they hardly couple at all (e.g., two distant triplet excitons in a conjugated polymer). We shall describe experimental and computational results that have been obtained so far for the syn and anti conformers of p-di(p-nitro-beta-styryl)benzene, a molecule intermediate between the two extremes.