



# TRENDS<sup>in</sup> LOGIC<sub>22(2022)</sub>

## Strong & Weak Kleene Logics

The 22nd Trends in Logic workshop, entitled “Strong & Weak Kleene Logics”, will take place at the **University of Cagliari** (Cagliari, Italy) from **18–20 July** 2022. It is organized by the ALOPHIS research group of the Department of Pedagogy, Psychology and Philosophy.

### About workshop:

While the strong three-valued logic of Kleene and the Logic of Paradox have long held a prominent place in the landscape of non-classical logics, the last decade has seen a resurgence of interest in related logics, including the Paraconsistent Weak Kleene logic (PWK) and Strict-Tolerant logics. These logics put their own twist on the idea of three truth values and accordingly they have varied philosophical readings and applications. Among other things, they represent logics of partial information, logics of nonsense, and logics of variable inclusion. Algebraic and proof-theoretic methods have successfully been brought to bear on these logics, but much remains to be explored. The aim of the workshop is to bring together researchers working on these various facets of logics related to the strong and weak Kleene systems, be they algebraic, proof-theoretic, or philosophical.

### Invited Speakers:

Eduardo Barrio (University of Buenos Aires & CONICET)  
Massimiliano Carrara (University of Padua)  
Pablo Cobreros (University of Navarra)  
Paul Egré (Institut Jean-Nicod)  
Peter Jipsen (Chapman University)  
Tommaso Moraschini (University of Barcelona)  
Graham Priest (University of Melbourne & CUNY)  
Anna Romanowska (Warsaw University of Technology)

### The topics of the workshop include, but are not limited to, the following:

- Proof theory and algebraic semantics for: Strong Kleene logic / The Logic of Paradox LP / Bochvar's logic / Paraconsistent Weak Kleene logic PWK
- Kleene lattices and their expansions (e.g., MV-algebras)
- Płonka sums and regular varieties
- Left & right variable inclusions logics
- Non-Tarskian relatives of Kleene logics: Strict-Tolerant logic / Metainferential logics
- Philosophical applications: Truth theory / Partial information / Analytic entailment / Logic of significance/nonsense
- CS applications (e.g., belief revision, paraconsistent database update, partial information, etc.)

### Scientific Committee:

Jacek Malinowski (Chair)  
Walter Carnielli  
Roberto Giuntini  
Daniele Mundici  
Yde Venema  
Heinrich Wansing

### Organising Committee:

Stefano Bonzio  
Davide Fazio  
Antonio Ledda  
Francesco Paoli  
Michele Pra Baldi  
Adam Prenosil  
Gavin St. John  
Gandolfo Vergottini  
Nicolò Zamperlin

