

Third workshop "Logic of space and time"
and scientific session of department Mathematical Logic,
dedicated to the 80th anniversary of Prof. Dimiter Vakarelov,
May 12-14, 2018, Gyolechitsa, Bulgaria.

Saturday, May 12

Afternoon session:

- 16:30** **COFFEE**
- 16:45** **Philippe Balbiani, IRIT, Toulouse, France**
"Modal logics with intersection: a story"
- 17:45** **BREAK**
- 18:00** ***Plamen Dimitrov, Dimiter Vakarelov, Sofia University***
"Dynamic contact algebras and quantifier-free logics for space
and time"
- 18:40** **BREAK**
- 18:50** **Vladimir Sotirov, BAS**
"Aristotle, Leibniz, Boole, Vakarelov and beyond"
- 19:10** **Tatyana Ivanova, BAS**
"Extended contact algebras"
- 19:30** **OFFICIAL DINNER IN HONOUR OF THE 80TH
ANNIVERSARY OF PROF. VAKARELOV**

Sunday, May 13

8:45 - 9:30 **BREAKFAST**

Morning session:

9:30 **COFFEE**

9:45 **Stefan Gerdjikov, Sofia University**
"Classical Algorithms over General Monoids"

10:35 **COFFEE BREAK**

10:50 **Dimitar Skordev, Sofia University**
"TTE computability on Moschovakis extensions"

11:20 **Ivan Georgiev, University "Prof. Assen Zlatarov"**
"On the complexity of irrational numbers under different representations"

11:50 **BREAK**

12:05 **Stoyan Mihov, ICT, BAS**
"On rational and sequential arithmetic functions"

12:35 **Dimitar Dobrev, BAS**
"AI should not be an Open Source Project"

13:00 **LUNCH**

Afternoon session:

16:45 **COFFEE**

17:00 **Çiğdem Gencer Balbiani, Istanbul Aydin University**
"Unification Type of Topological Logics"

17:50 **BREAK**

18:05 **Cvetlin Marinov, Sofia University**
"A Logic of Strong Contact between Polytopes"

18:35 **BREAK**

18:45 **Ivan Nikolov, Sofia University**
"Logics of n-ary Contact: Independence of the Completeness Proof"

19:10 **Lybomir Ivanov, BAS**
"Current demographic problems and solutions"

19:30 **DINNER**

Monday, May 14

8:45 - 9:30 **BREAKFAST**

Morning session:

9:30 **COFFEE**

9:45 *Ivo Düntsch (Brock University), W. Dzik, E. Orłowska*
"Decomposing the discriminator in the semilattice of modal operators"

10:45 **COFFEE BREAK**

11:00 *Georgi Dimov (Sofia University), Elza Ivanova-Dimova,*
Ivo Düntsch
"On dimension and weight of a local contact algebra"

11:30 **Elza Ivanova-Dimova, Sofia University**
"Vietoris-type hypertologies"

11:50 **BREAK**

12:05 **Tinko Tinchev, Sofia University**
"Region-based theories of space and time: Modal definability"

13:00 **LUNCH**

14:00 **EXCURSION**

19:30 **DINNER**

Tuesday, May 15

8:45 - 9:30 **BREAKFAST**