

**Seminar**

of the Department of complex matter F7

**Tuesday, 13.11.2018 at 14:30,**

Seminar room F7

**Vertex directed analysis of the hidden state  
relaxation in 1T-TaS<sub>2</sub>**

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I will be presenting a brief summary of our latest results obtained by applying a global interdomain shifts recognition algorithm on a high quality STM sequence of the relaxation of the H-state in 1T-TaS<sub>2</sub>.

We show how the results of the algorithm provide a basis for the study of dislocations by determining trivial and non-trivial vertices where domain walls meet by constructing Burgers circuits and vectors around selected vertices. The analysis shows that some of the relaxation dynamics could be consistent within the scope of dislocation theory.

The lecture will be held in English.

Cordially invited to attend.

