

## "Pattern formation during the CO oxidation reaction on non reconstructing platinum group metal"

Sunday, 21 October 2007

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Next Tuesday professor Stefan Wehner from University of Bayreuth (Germany) will give a seminar on pattern formation. I attach below a summary of the talk. The seminar will take place in the laboratory of Matter out of Equilibrium (DFI, downstairs) at 16pm.

Best, Enrique.

## Abstract

The catalytic CO oxidation on platinum metal surfaces attracts high interest not only from the scientific point of view but also as a result of industrial needs. Some hundred million cars use a three way catalytic converter to clean their exhaust. One task of this exhaust cleaning process is the removal of carbon monoxide via oxidation to CO<sub>2</sub>. The CO oxidation on platinum metal catalysts has been repeatedly examined over the decades using various surface science techniques. The (111)-surfaces of Platinum, Palladium, Rhodium and Iridium do not reconstruct under reaction conditions and have been therefore selected for the ongoing studies.