

## EXCITING DNA WITH RUTHENIUM COMPLEXES

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The ruthenium 'light-switch' complexes fluoresce when bound to DNA but not in water, and can detect DNA in living cells. Related complexes can photooxidise DNA, providing an insight into DNA damage mechanisms.

This talk explores how the combination of X-ray crystallography and ultrafast spectroscopy can define the basis of these mechanisms. Some progress has also been made in the design of new complexes which can target particular structural features.

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CFEL  
SEMINAR ROOMS I-III

