

86-12

**THE PHOTOSTABILITY OF A DYE ADSORBED SEMICONDUCTOR
ELECTRODE IN A SOLUTION OF ANOTHER FLUORESCENT DYE**

K. TENNAKONE

*Photochemistry Group, Institute of Fundamental Studies, 380/72, Bauddhaloka Mawatha,
Colombo 7, Sri Lanka, and
Department of Physics, University of Ruhuna, Matara, Sri Lanka*

J. KARUNAMUNI and M. DEWASURENDRA

Department of Physics, University of Ruhuna, Matara, Sri Lanka

Received 11 January 1986; in revised form 6 March 1986

It is found that the photodegradation of methyl violet adsorbed onto a p-CuCNS photocathode can be suppressed if the electrolyte contains another fluorescent dye, e.g. rhodamine B or fluorescein. It is suggested that stabilization results from energy transfer between excited dye molecules in the solution and the adsorbed dye.