

DEGRADATION OF CHLOROPHYLL
LUMINESCENCE IN PLANTS

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S u m m a r y

The chlorophyll photoluminescence intensity degradation of *Vallisneria spiralis* L. water plant is studied. It is shown that the degradation curve is rather well described by a sum of two hyperbolic functions. The rate of intensity degradation reduces at low temperatures. At room temperature, a slow restoration of the luminescent system is observed after the irradiation has been ceased. No restoration is detected at the liquid nitrogen temperature. A simplified model which describes the luminescence degradation according to the quadratic law is suggested.