Band selection for laser induced fluorescence measurement on the basis of Jeffreys-Matusita
distance for oil pollution detection on the Earth surface
Yu.V. Fedotov
Bauman Moscow State Technical University, Moscow
fed@bmstu.ru

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Search of optimal set of spectral bands for laser induced fluorescence registration for the task of
oil pollution detection is described in the paper. Jeffreys-Matusita distance was used as an
optimality criterion. Mathematical modeling showed that 2-3 spectral bands of several dozens
nm width are enough for reliable detection of oil pollution.