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Performance of Routing Capability of Dynamic ROADM Optical Networks

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Abstract - Literature review revealed that reconfigurable optical add/drop multiplexers (ROADMS) can be classified into three categories based on their underlying switching technologies . Category I consists of a single large optical switch ; category II is composed of a number of small optical switches aligned in parallel ; and category III has a single optical switch and only one wavelength being added /dropped . In this paper , to evaluate the wavelength-routing capability of ROADMS of category II in dynamic optical networks, We design dynamic traffic models based on Bernoulli, Poisson distributions for smooth and regular type of traffic . Through analytical and simulation results, We have determined the routing power of cat II of ROADM networks for two traffic models .