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## Measurement of observables sensitive to coherence effects in hadronic Z decays with the OPAL detector at LEP

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A study of QCD coherence is presented based on a sample of about 397.000  $e^+e^-$  hadronic annihilation events collected at  $\sqrt{s} = 91$  GeV with the OPAL detector at LEP. The study is based on four recently proposed observables that are sensitive to coherence effects in the perturbative regime. The measurement of these observables is presented, along with a comparison with the predictions of different parton shower models. The models include both conventional parton shower models and dipole antenna models. Different ordering variables are used to investigate their influence on the predictions.

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