

THE CDF-II TAU PHYSICS PROGRAM TRIGGERS,
 τ ID AND PRELIMINARY RESULTS

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S u m m a r y

The study of processes containing τ leptons in the final state will play an important role at Tevatron Run II. Such final states will be relevant both for electroweak studies and measurements as well as in searches for physics beyond the Standard Model. The present paper discusses the physics opportunities and challenges related to the implementation of a new set of triggers able to select events containing tau candidates in the final state. We illustrate, in particular, the physics capabilities for a variety of new physics scenarios such as supersymmetry (SUSY), SUSY with $\mathcal{R}\mathcal{P}$ -parity violation, with Bilinear parity violation or models with the violation of lepton flavor. Finally, we present the first Run II results obtained using some of the described tau triggers.