

Group Meeting Update

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Updates

- Calculation on statistical correction for $t\bar{t}$ (already implemented on $b\bar{b}$)
- Kaon charge identification without **cheating** (use of MC info).

Calculation of **p** and **q** values

$$N_{acc} = Np^2 + Nq^2$$

$$N_{rej} = 2Npq$$

where N is total number of events, N_{acc} and N_{rej} are number of events that were accepted and rejected, respectively. p and q values represents probabilities of events being accepted and rejected.

Solving this quadratic equation will give us back both p and q , thus improving our results on A_{fb} .

Efficiency and p-value

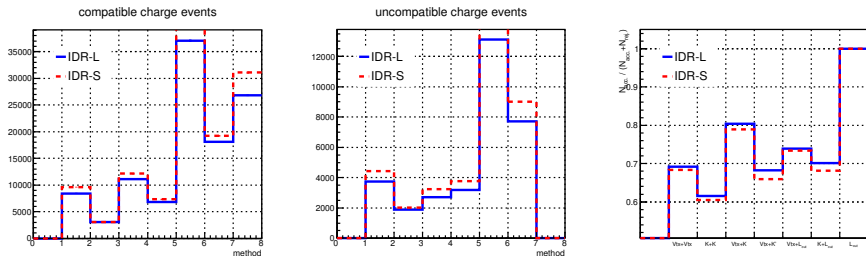


Figure: number accepted and rejected events.

Efficiency and p-value

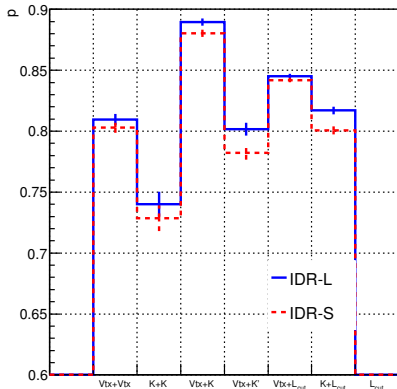
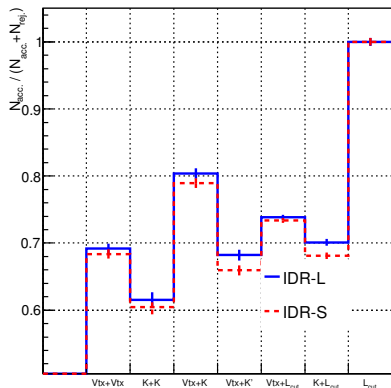


Figure: p for correct charge selection and its fractions on number of events.

Efficiency and p-value

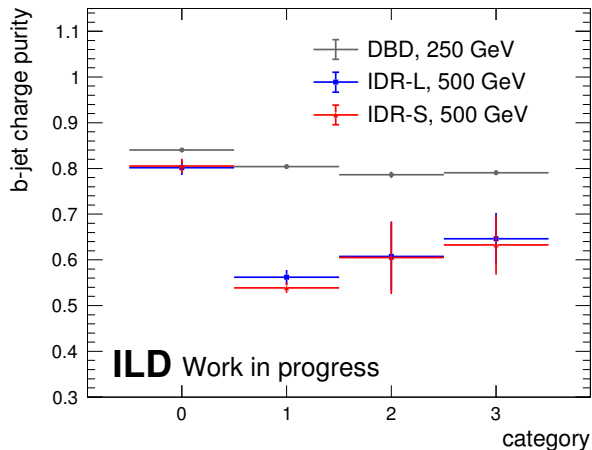


Figure: p for correct charge selection for DBD $b\bar{b}$ (from Adrian's slide).

Conclusion

- Increase statistics with more data sets.
- perhaps we need Grid to compute (for storage as well)