Sample	SVX bkg	SVX tags	SLT bkg	SLT tags
W+1 jet	50 ± 12	40	159 ± 25	163
W+2 jet	21 ± 7	34	46 ± 7	55
W+$\geq$ 3 jet	6.7 ± 2.1	27	15.4 ± 2.3	23

Table 5: The expected number of background tags and the observed number of tags in the CDF lepton+jets sample as a function of the number of jets in event.

Sample	Background	Observed
CDF Dileptons	1.3 ± 0.3	6
DØ Dileptons	0.65 ± 0.15	3
Lepton + Jets (DØ Kinematics)	0.93 ± 0.50	8
Lepton + Jets (DØ B Tagging)	1.21 ± 0.26	6
Lepton + Jets (CDF SVX tags)	6.7 ± 2.1	27
Lepton + Jets (CDF SLT tags)	15.4 ± 2.3	23

Table 6: The expected number of background events and the observed number of events in the different analyses. Note that some event samples and background uncertainties are correlated so it is not straightforward to combine these observations into a single statement of statistical significance.

less than one SVX-SVX double tag and one SVX-SLT double tag in the absence of $t\bar{t}$ production, whereas we would expect four events in each category using the excess of SVX tags to estimate the $t\bar{t}$ production cross section. These observations strengthen the $t\bar{t}$ interpretation of the CDF sample.

7.3 Summary of Counting Experiments

The results of the lepton+jets counting experiments performed by DØ and CDF are summarised in Table 6. Both collaborations observe an excess of events in all the channels in which one can reasonably expect evidence for the top quark. Many of the channels demonstrate correlated production of $W^{\pm}$ bosons with b quarks – exactly what we would expect from $t\bar{t}$ decay.

Taken together, this is overwhelming evidence that the two collaborations are observing phenomena that within the context of the standard model can only be attributed to pair production of top quarks.

8 Measurement of Top Quark Properties

In order to further test the interpretation that top quark production is responsible for the excess in the dilepton and lepton + jets channels, both collaborations have