

Abstract Submitted
for the APR21 Meeting of
The American Physical Society

Overall Description of UT Electronic Components ZHUOMING LI,
Syracuse University, LHCb COLLABORATION COLLABORATION — The Up-
stream Tracker (UT) is a large-area silicon-strip detector being constructed for the
LHCb Upgrade. It plays a key role in that it enables a rapid momentum measure-
ment to be performed, and usage of that information increases the speed at which
the software trigger operates by about factor of three. The readout system of the
UT – and all other LHCb detectors – runs at the full LHC beam-beam crossing rate
of 40 MHz, allowing every event to be fully analyzed in the software trigger. This
talk will present the components of the UT readout electronics, which includes a
custom ASIC, Kapton hybrids, flex cables that transport signals to the periphery,
and peripheral electronics that process and package the signals for the data acqui-
sition system and experimental trigger. And the data flow within those components
will also be briefly discussed.

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Date submitted: 11 Jan 2021

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