LTX and LTX- β

	LTX	LTX-β
А	1.6	1.6
R ₀	40 cm	40 cm
а	26 cm	26 cm
B _T	<1.7 kG	<3.4 kG
I _p	<100 kA	<200 kA
P _{aux}	0	700 kW
Pulse length	<50 msec	<100 msec



LTX-B

- High field-side limited by a conformal, high-Z wall
- Operated in hydrogen (gas puffing)
 - 35A neutral beam fueling, improved HFS puffing, topside SGI
- CHERs, many new diagnostics

LTX-β status

- Machine is fully operational
- All coils and power supplies have been run to 100% of startup requirements
- Neutral beam power supply tested to full operating parameters
- Neutral beam grids have been hipotted to 40 kV
 - 2x operating voltage
 - Source has *not* been operated
- Mounting the NSTX-U granule injector
- Still adding diagnostics
- But: permission to run LTX-β with plasma has not been granted





Near-term program

- Begin with discharges on uncoated stainless steel walls
 - Baseline shots
- First lithium experiments will use the granule injector
 - Will permit comparison of lithium granule injection vs. evaporative wall coatings
- Evaporative coating of walls with lithium expected in late October/ early November
 - New evaporators also intended for use in NSTX-U
- Procedures for beam operation in preparation
 - Hope to operate beam into the calorimeter late this month or early October
- Characterization of beam heated, fueled plasmas with low recycling lithium walls a lab notable for March 2019