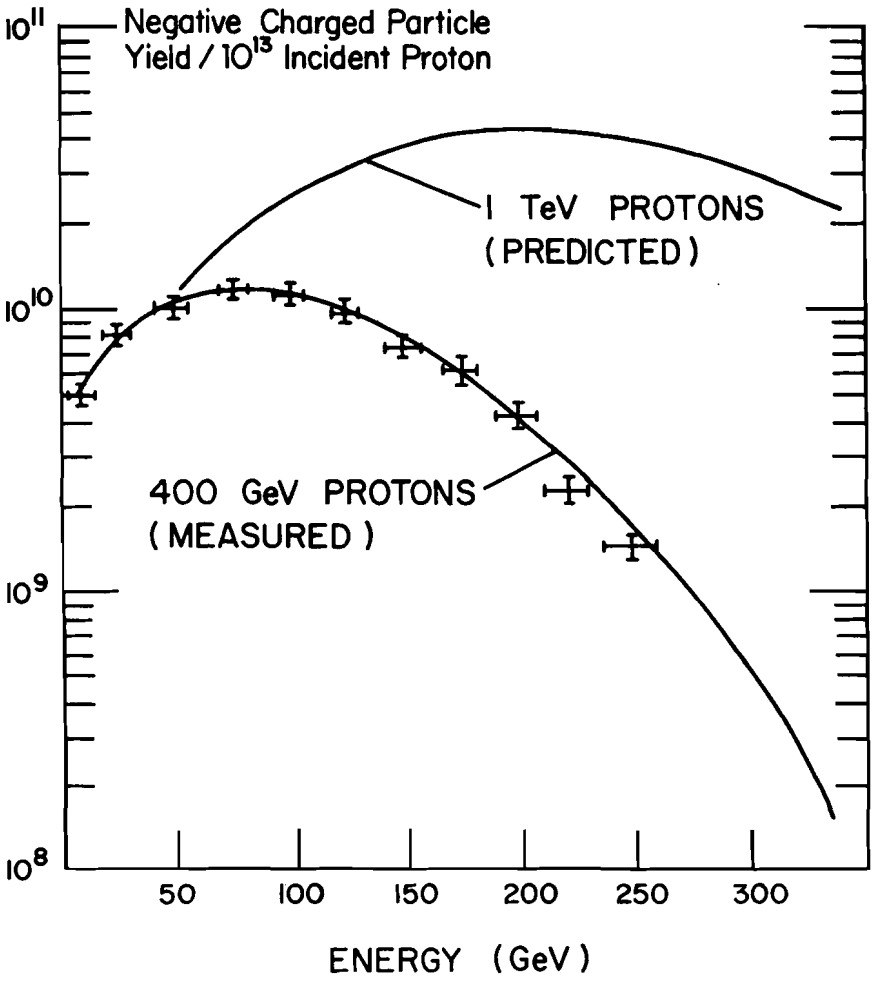
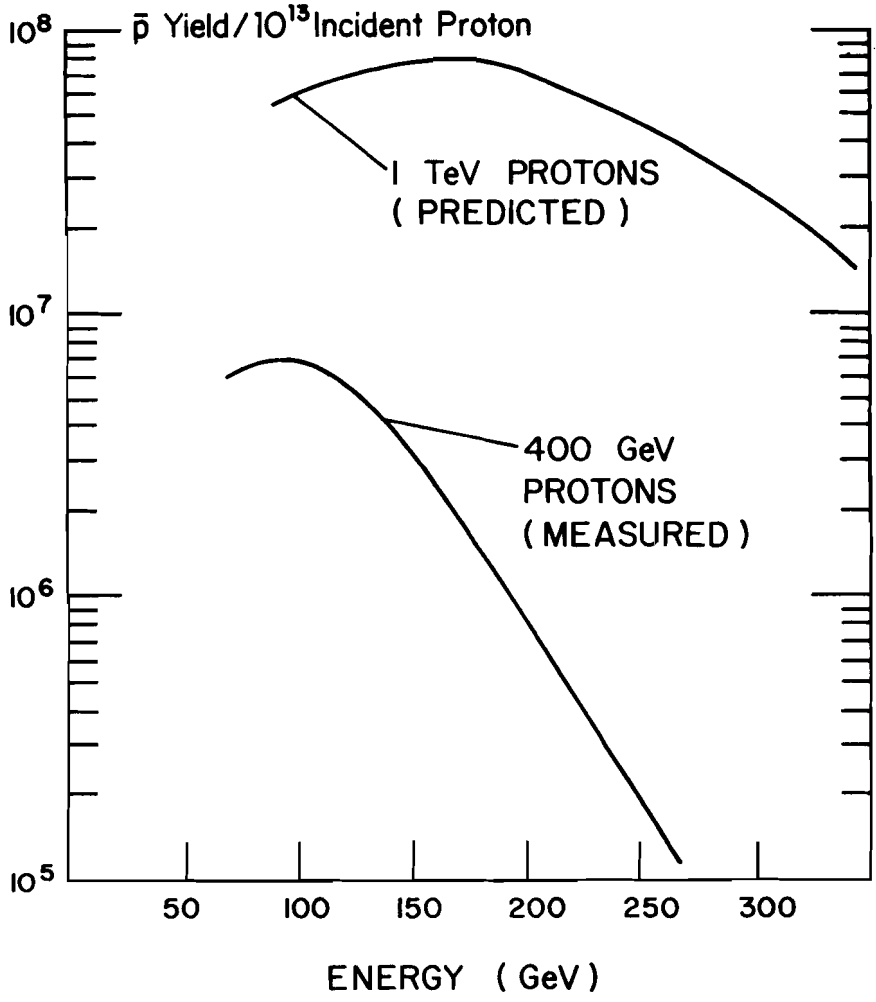
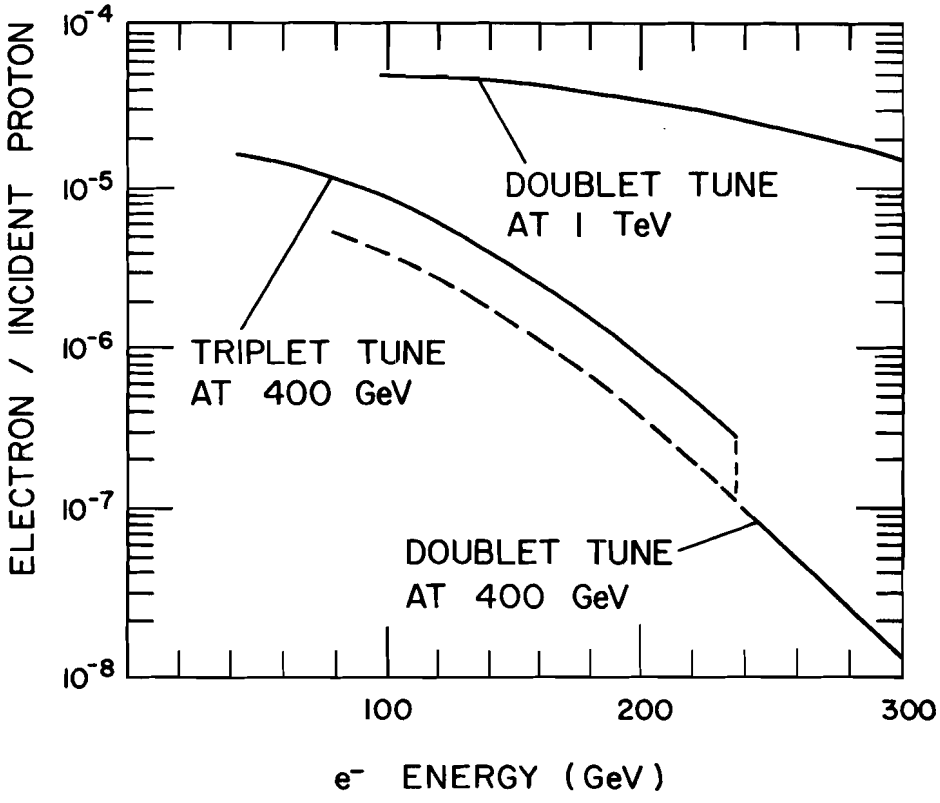
APPENDIX II. MISCELLANEOUS TeV II PARAMETERS



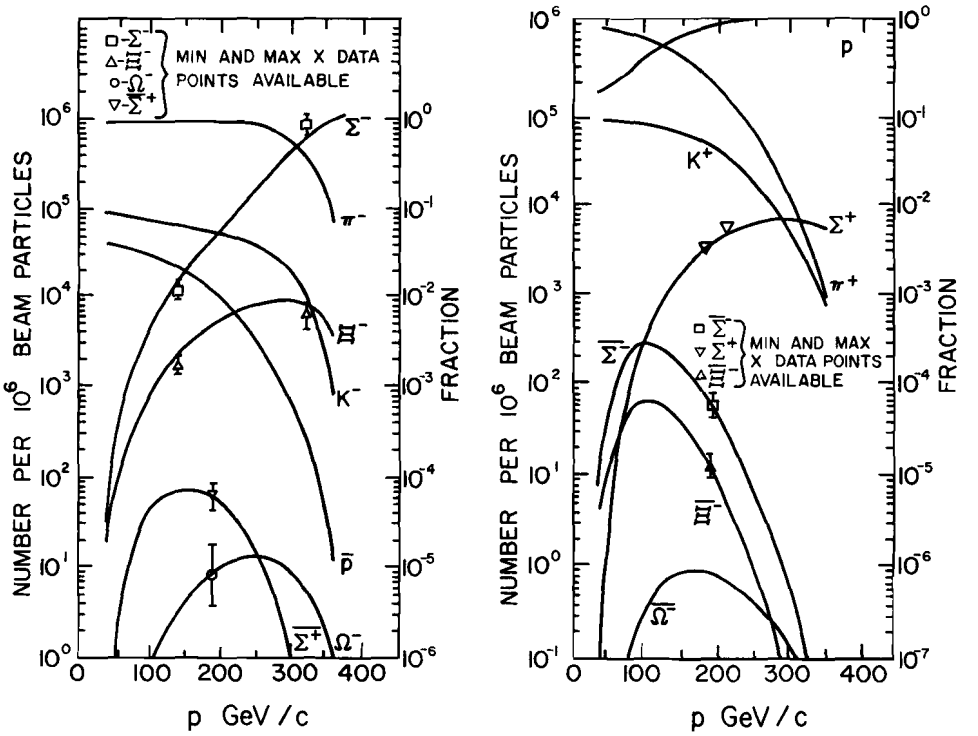
High intensity lab pion flux.



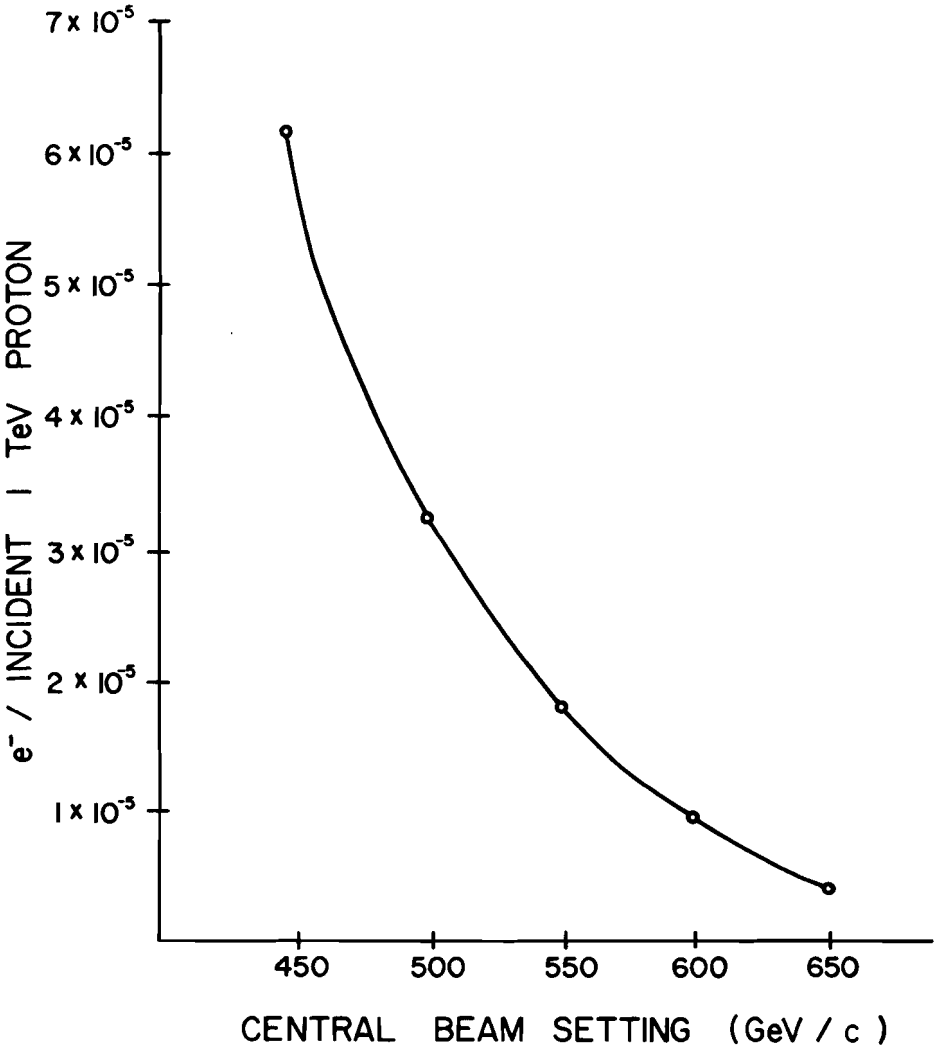
High intensity lab $\bar{p}$ flux.



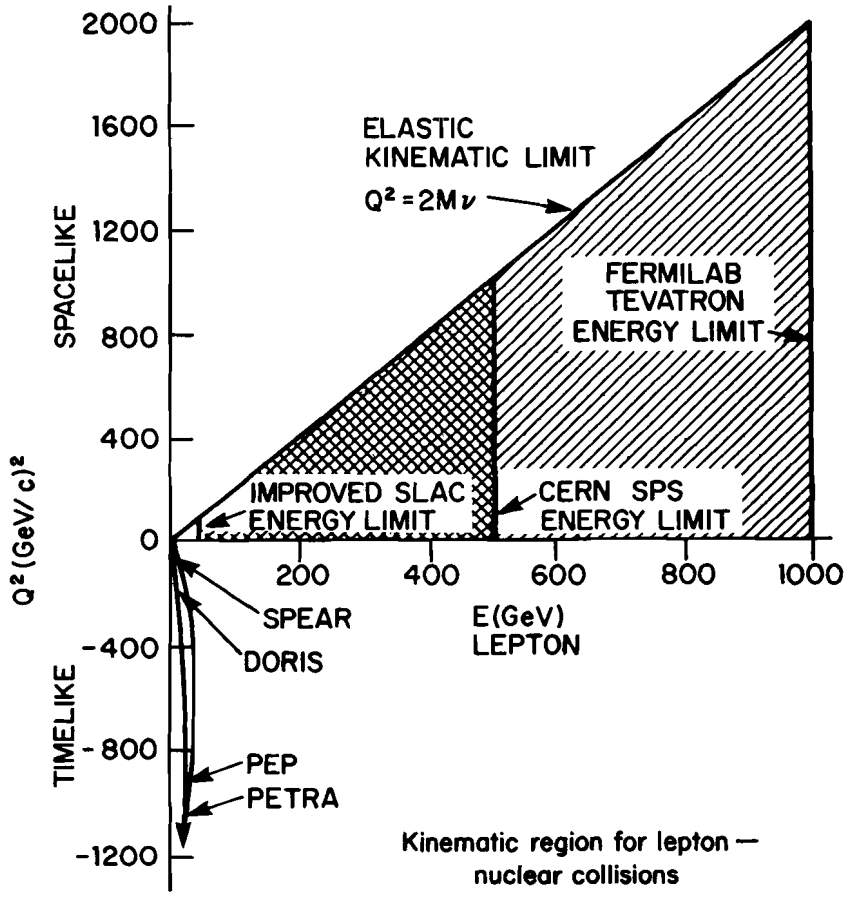
Tagged photon lab electron beam flux.



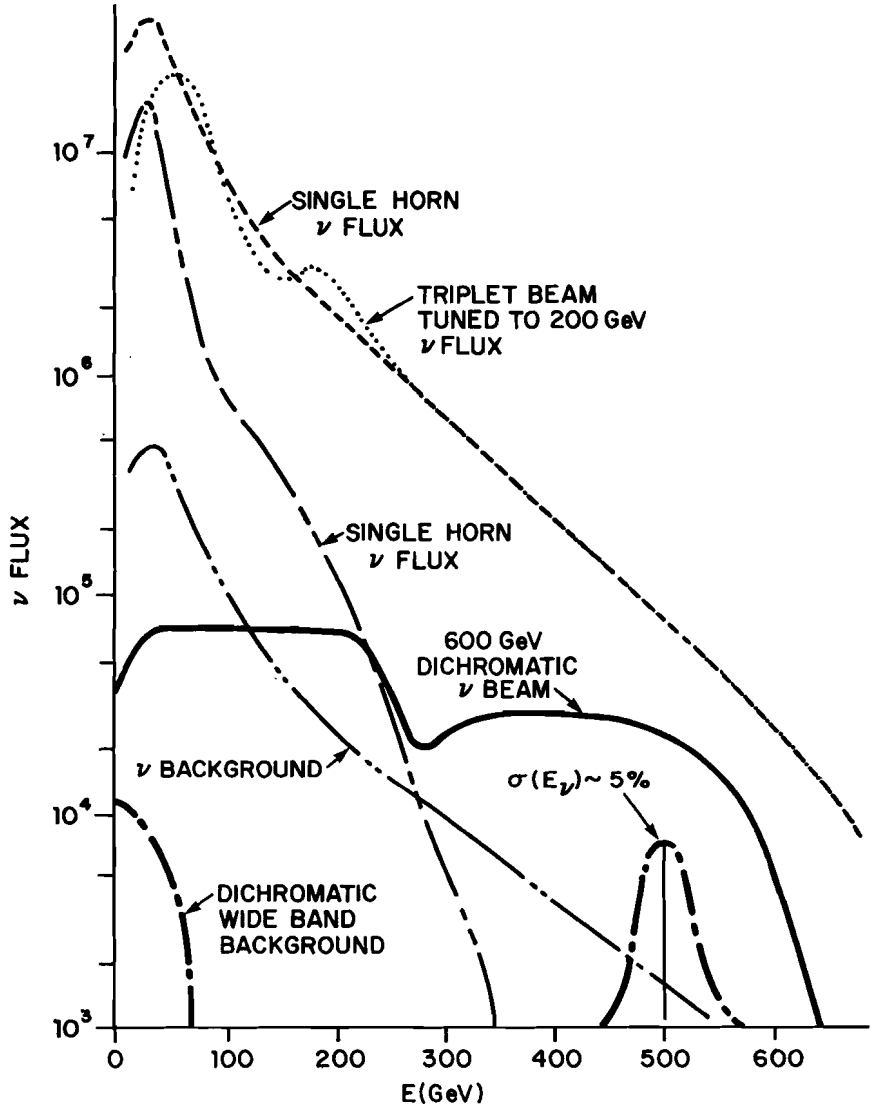
Hyperon beam flux. Flux estimates for the Fermilab charged hyperon beam. The data points represent the range in x of measurements made with other charged hyperon beam.



Broad band beam electron flux.

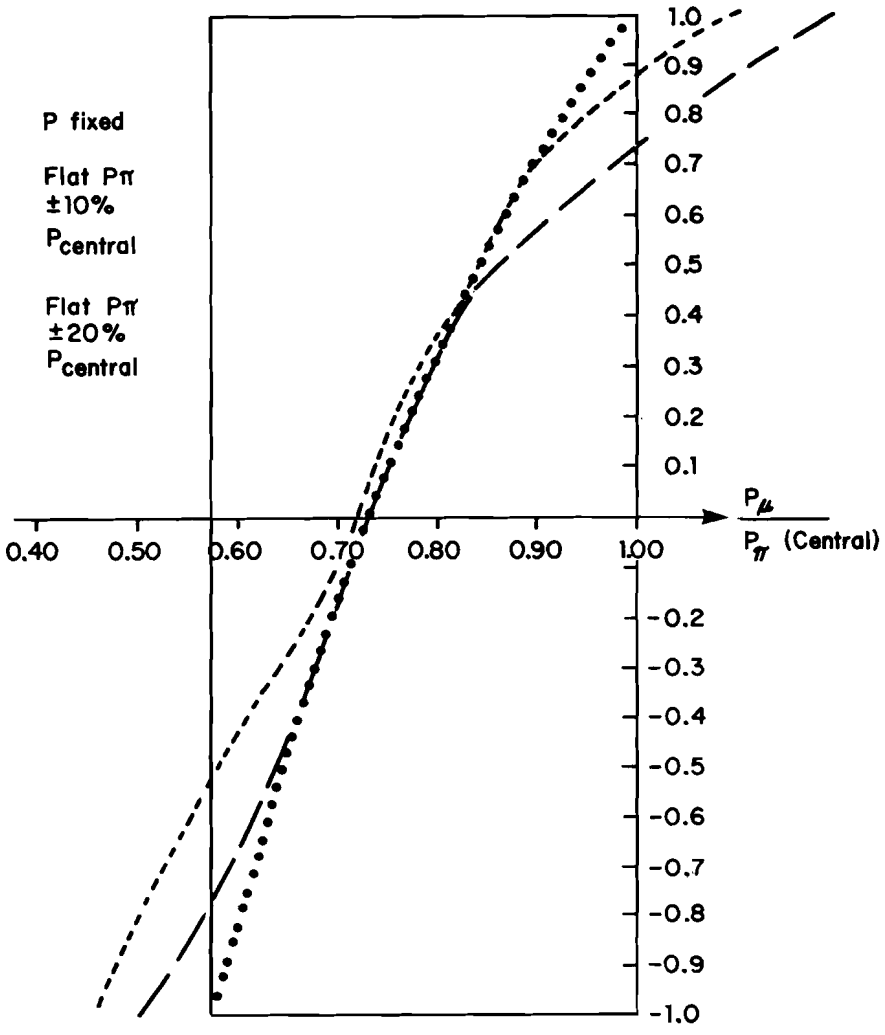


Kinematic region for lepton — nuclear collisions



Tevatron neutrino fluxes.

(ν/meter^2/GeV/10^{13}p's)
1-TeV protons incident on 1 sq. meter
Detector at 1400 m distance



Helicity vs. $\frac{P_\mu}{P_{\pi(\text{central})}}$ $\quad \pi^- \rightarrow$ found μ^-, H = +1. $\quad \pi^+ \rightarrow$ found π^+, H = -1

Table I. Flux Yields.

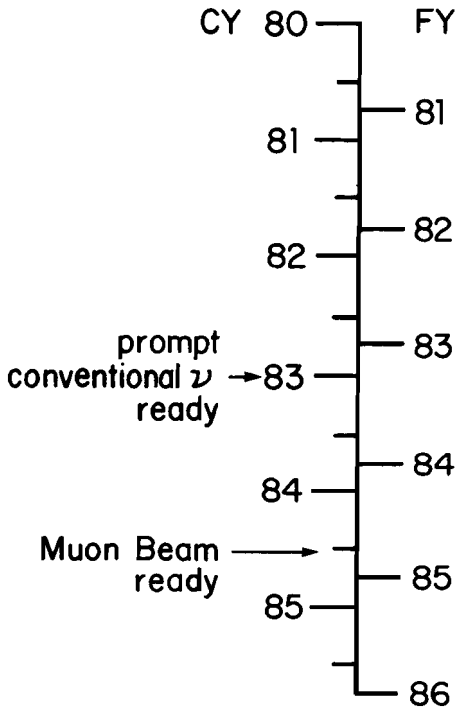
"Beam 2"
(C. L. Wang Parametrization)*
1000, 800 GeV Protons Incident

p_μ (GeV/c)	$\mu^+/p_{inter.}$	K^+/π^+ parents	Halo/Beam
600	1.2×10^{-5}	0.20	0.04
440	9×10^{-5}	0.18	0.05
220	30×10^{-5}	0.12	0.08
750	1.2×10^{-5}	0.20	0.09

Tevatron Schedule and Priorities in Neutrino

PAC Aspen 1980

1. Conventional neutrino beam(s) for electronic detectors prompt neutrino source compatible with 15-ft bubble chamber operating cudns.
2. High quality muon beam for a wide range of scattering experiments.



Switchyd constr.; Fe shield install. new N7 beam; Neuhall Ext.

Switchyd const.; dichr. train, prompt neutrino, muon design

Prompt neutrino tgt enclo constr.; Muon Exp. Hall, Muon TgT-Hall const.

Muon TgT Hall, Muon FODO, Muon Beam Pipe Constr.

Commissioning of Muon Beam

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