

in heavy lepton physics. A more general paper "Spontaneously Broken Gauge Theories of Weak Interactions and Heavy Leptons" by James Bjorken and Chris Llewellyn Smith²⁹ was also very important in keeping my thinking general.

F. THE SLAC-LBL PROPOSAL

After numerous funding delays, a group led by Burton Richter and John Rees of SLAC Group C began to build the SPEAR e^+e^- collider at the end of the 1960's. Gary Feldman and I, and our Group E, joined with their Group C and a Lawrence Berkeley Laboratory Group led by William Chinowsky, Gerson Goldhaber, and George Trilling to build the Mark I detector. In 1971 we submitted the SLAC-LBL Proposal¹³ for the experiment using the Mark I detector at SPEAR. (The detector was originally called the SLAC-LBL detector and only called the Mark I detector when we began to build the Mark II detector. For the sake of simplicity, I refer to it as the Mark I detector.) The contents of the proposal consisted of five sections and a supplement as follows:

A. Introduction	Page 1
B. Boson Form Factors	Page 2
C. Baryon Form Factors	Page 6
D. Inelastic Reactions	Page 12
E. Search for Heavy Leptons	Page 16
Figure Captions	Page 19
References	Page 20
Supplement	

Thus the heavy lepton search was left for last and allotted just three pages because to most others it seemed a remote dream. But the three pages contained the essential idea of searching for heavy leptons using $e\mu$ events, Eq. 1.

I wanted to include a lot more about heavy leptons and the $e - \mu$ problem but my colleagues thought that would unbalance the proposal. We compromised on a 10 page supplement entitled "Supplement to Proposal SP-2 on Searches for Heavy Leptons and Anomalous Lepton-Hadron Interactions". The supplement began as follows.