

AGENDA FOR THE LIGO INTEGRATION MEETING

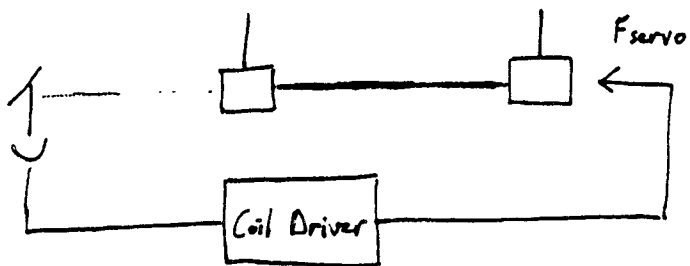
9 February 1995

Facilities	0900 - 0930	
<ul style="list-style-type: none">• Ground motion measurements at the sites• Foundation motions and alignment		Lisa Sievers Mike Gamble
Beam Tube	0930 - 1030	
<ul style="list-style-type: none">• QT Status & Baffle design issues• Tube motion analysis• Beam tube scattering measurements & baffle material options• Synopsis of the Baffle Review Meeting		Larry Jones Mike Gamble Rai Weiss Albert Lazzarini
BREAK	1030 - 1045	
Vacuum Equipment	1045 - 1115	
<ul style="list-style-type: none">• Deferral of getter pump procurement for initial interferometer• Procurement status & update		Mike Zucker John Worden
Detector	1130 - 1245	
<ul style="list-style-type: none">• Length control modeling• IFO configuration definition		Lisa Sievers Jordan Camp Dave Redding (JPL) Yaron Hefetz

**New Design for Acquisition Control System
Based on Single Cavity Acquisition Model**

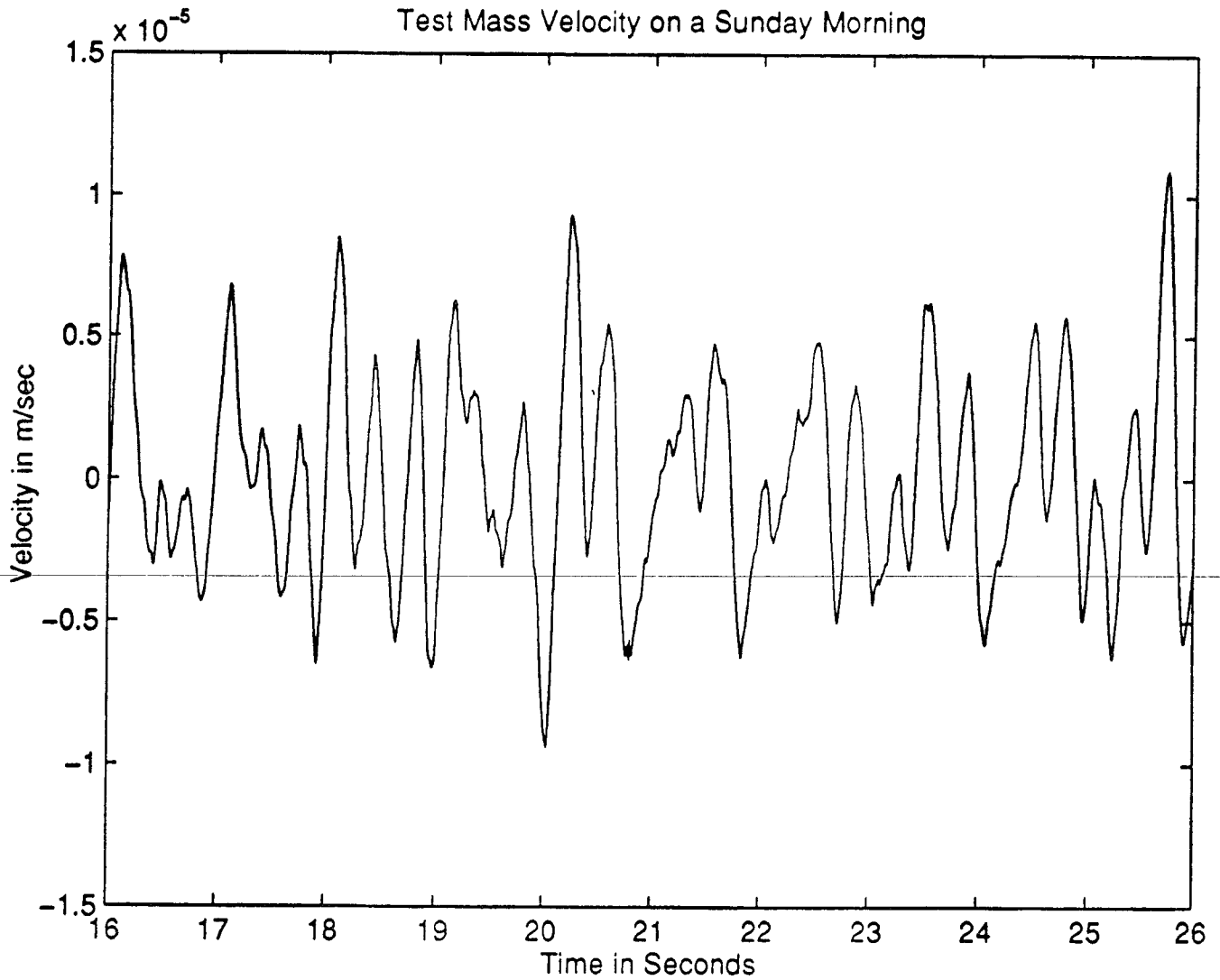
Jordan Camp

2/9/95



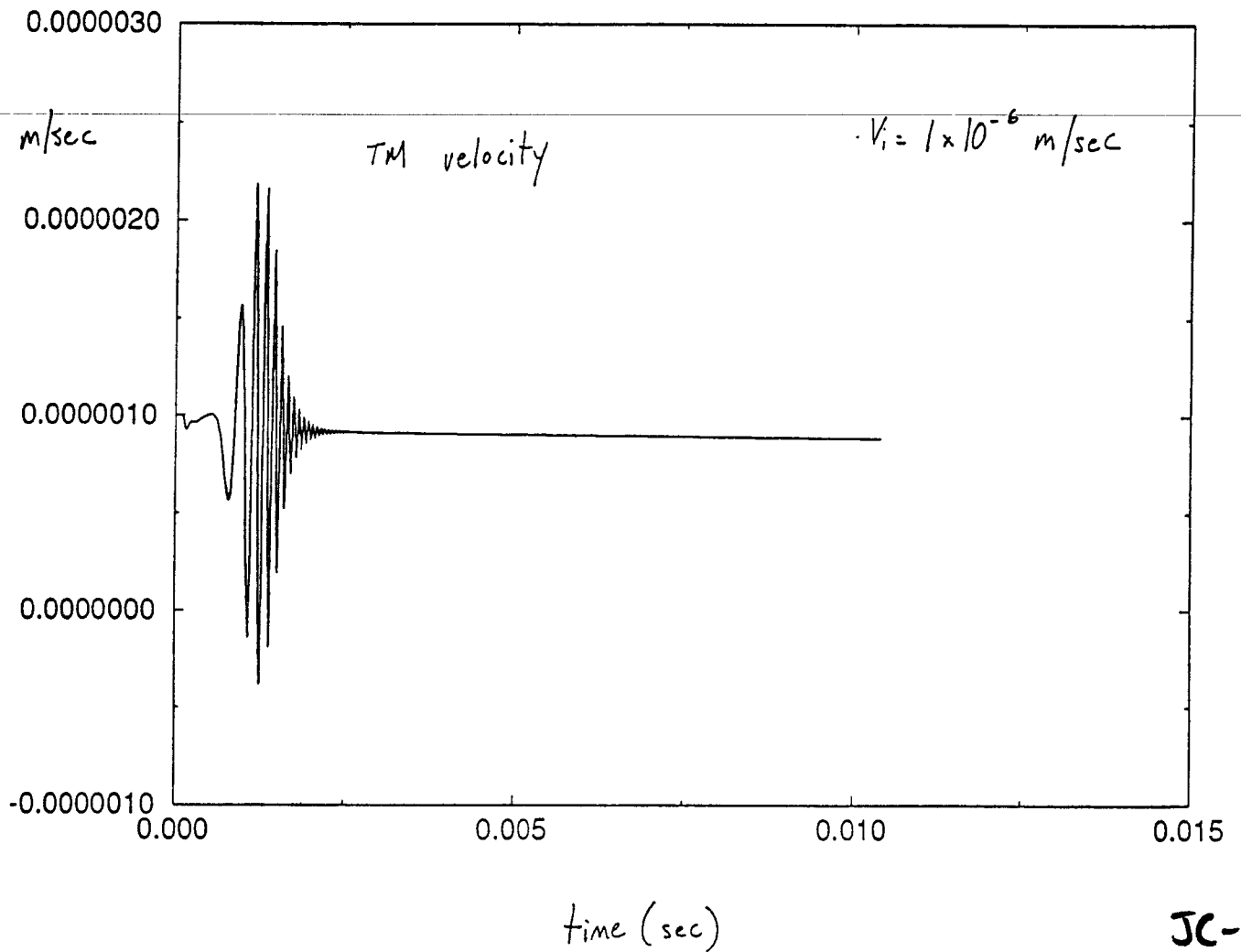
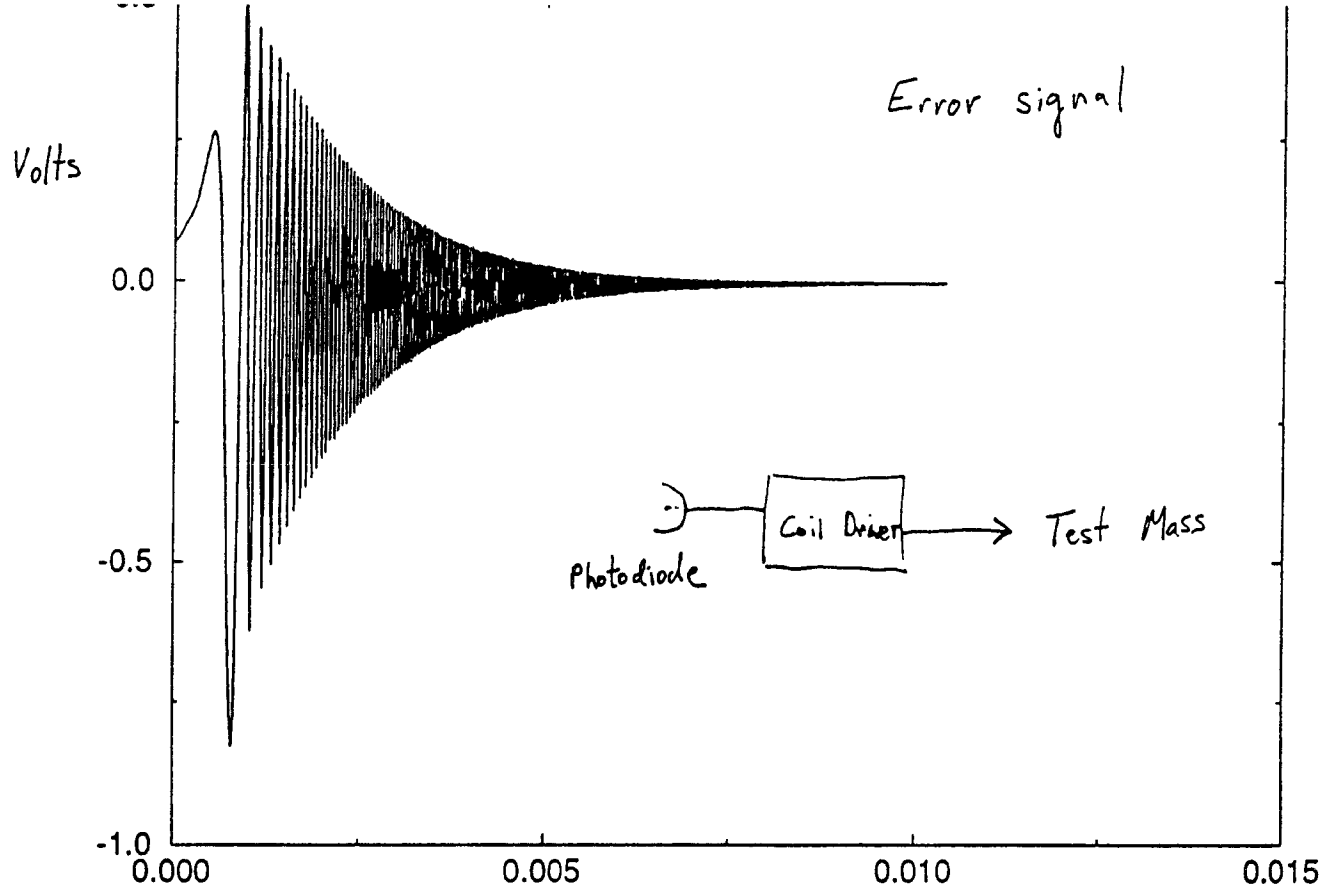
$$F_{servo} \sim F_{disturb}$$

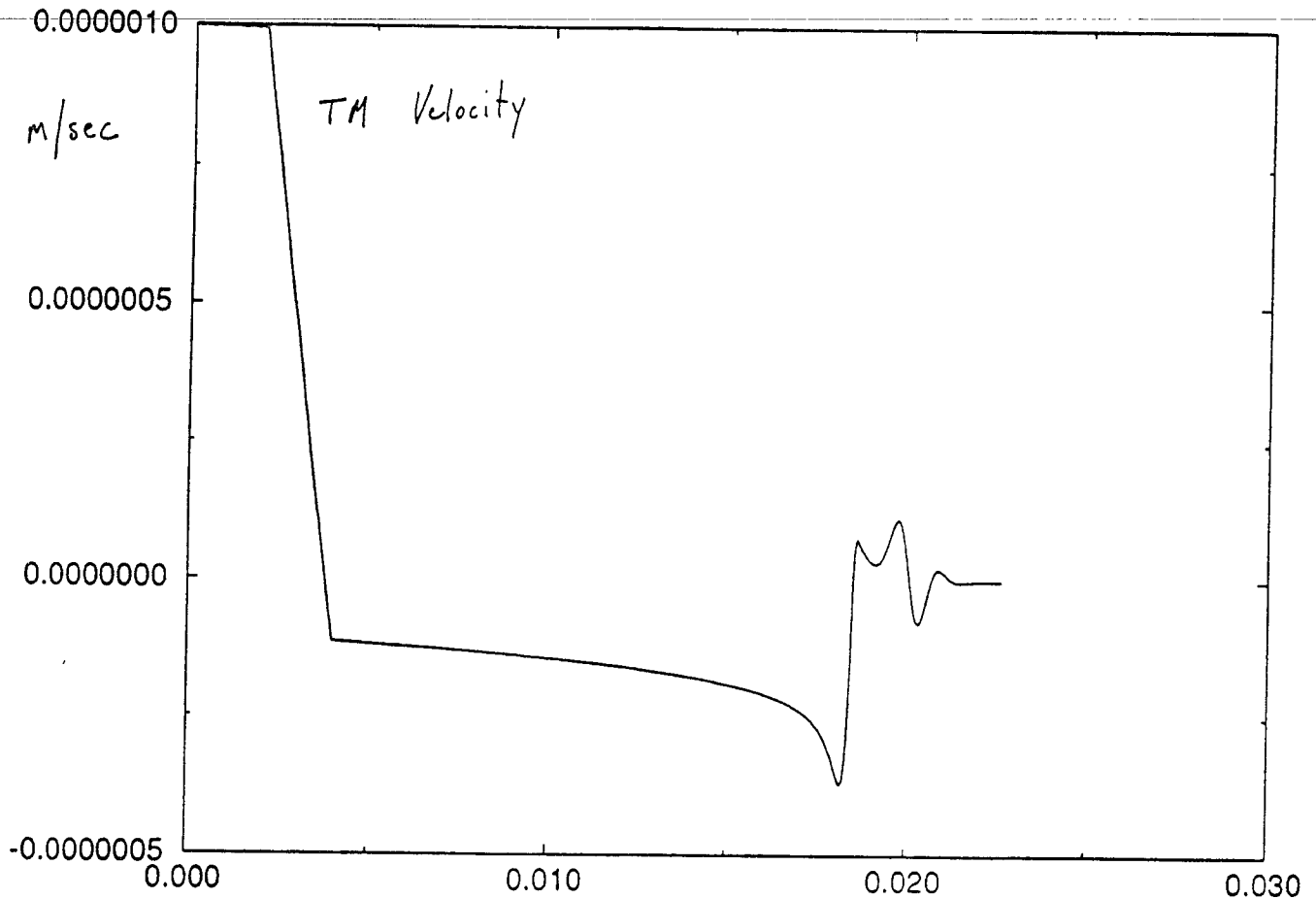
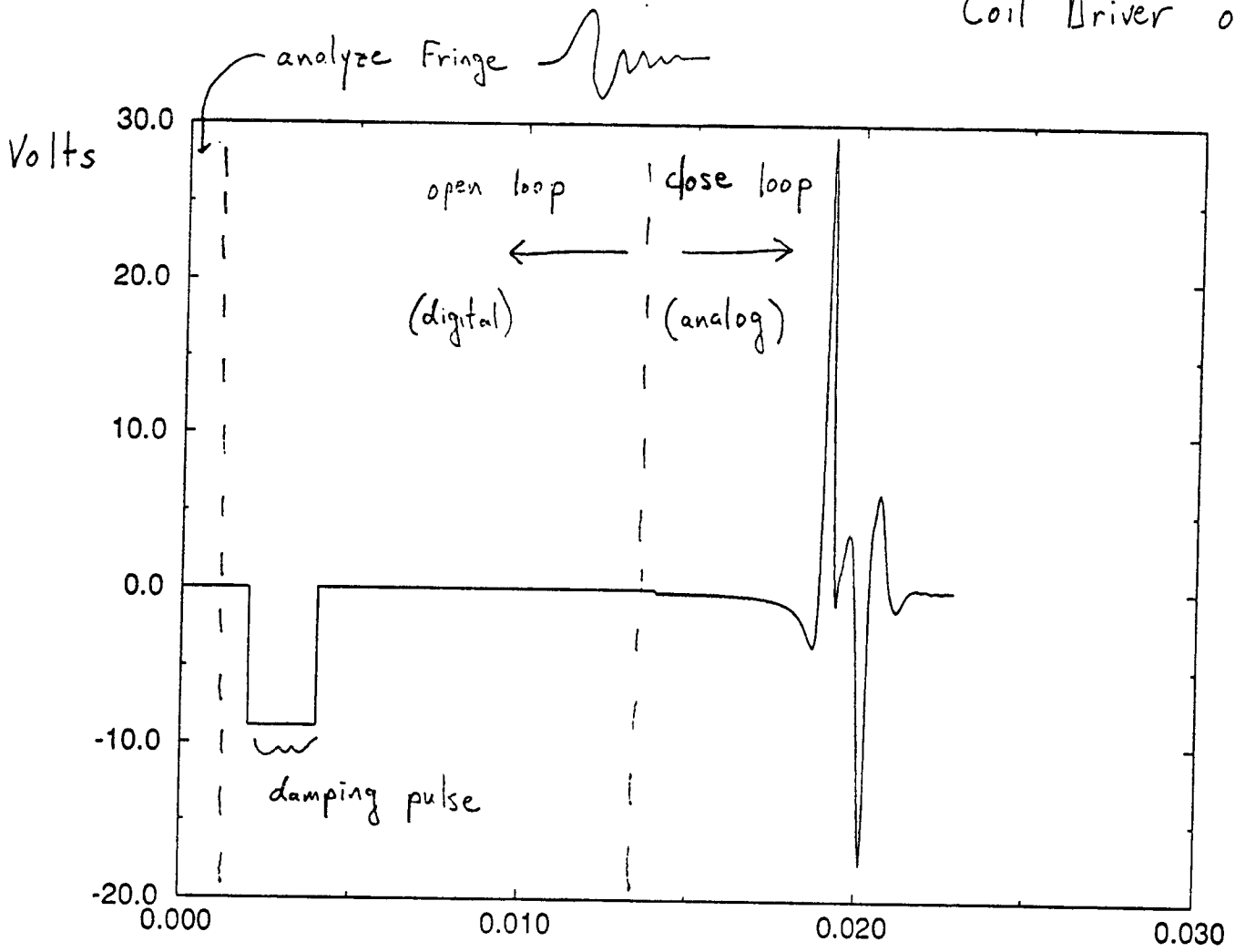
$$M V_{TM} = \int F_{disturb} dt$$

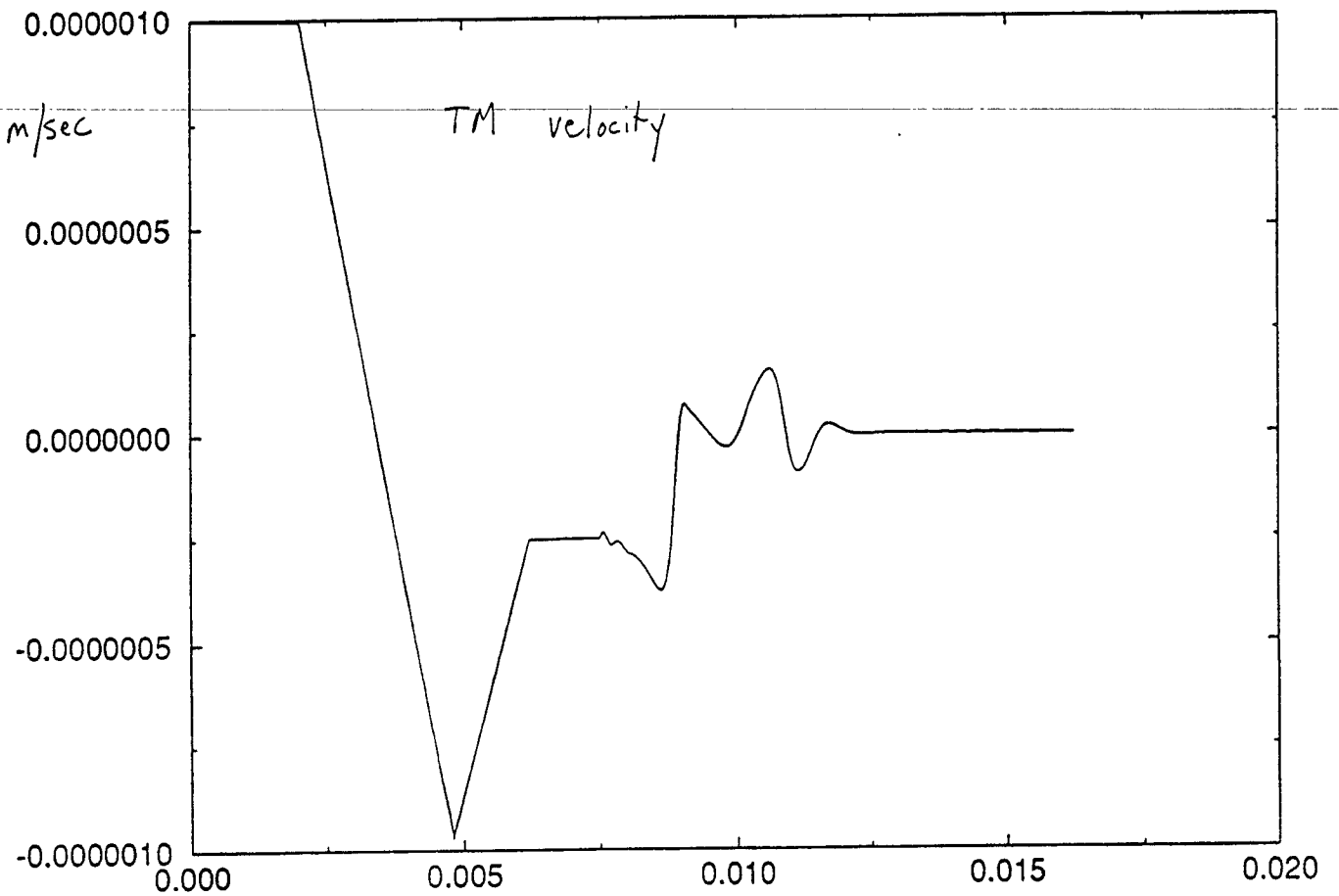
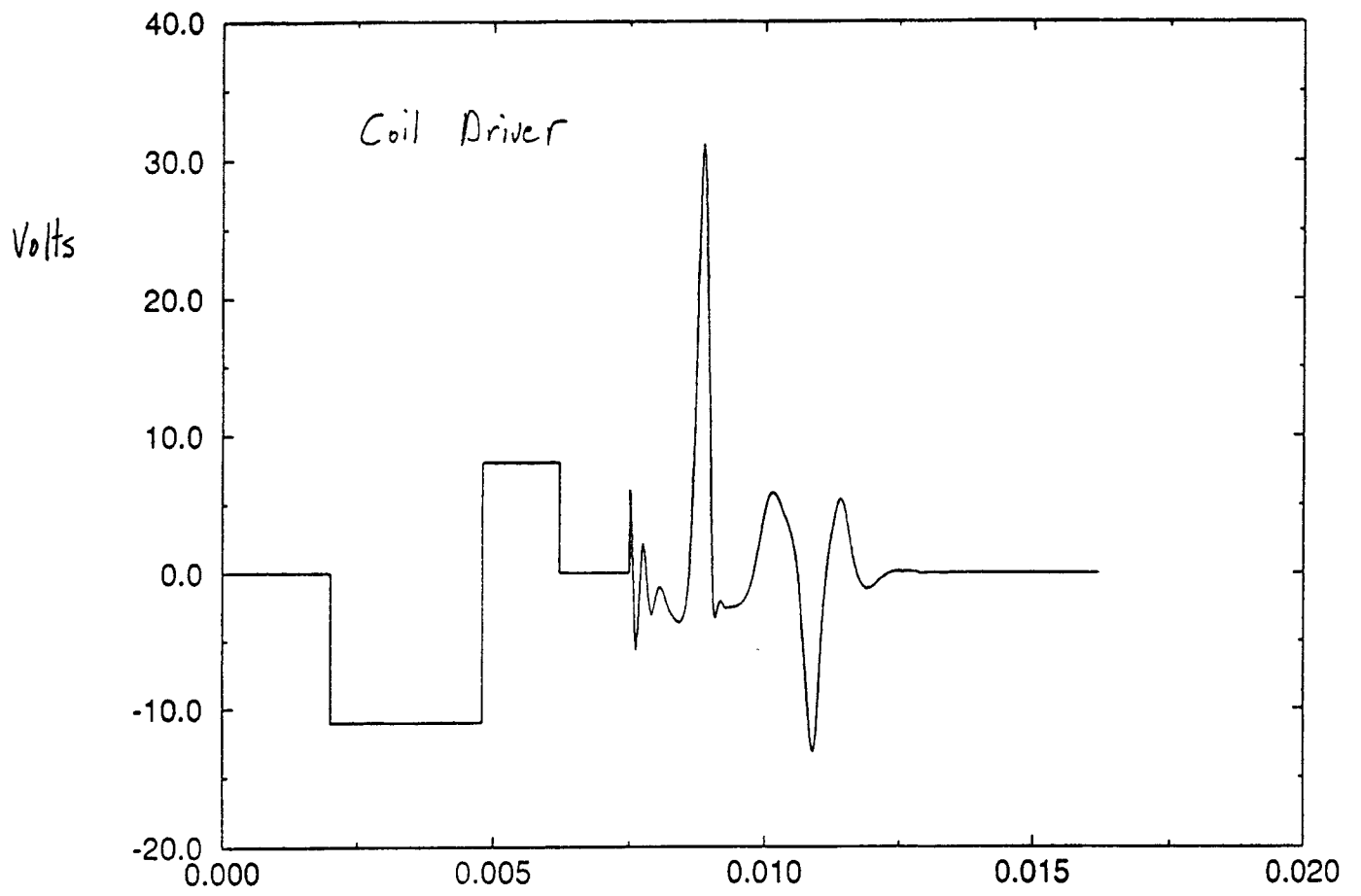


$$V_{rms} \sim 3 \times 10^{-6} \text{ m/sec}$$

$$V_{\text{threshold locking}} \sim 2 \times 10^{-7} \text{ m/sec}$$





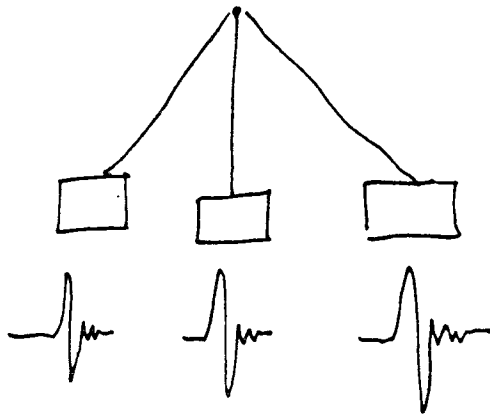


time (sec)

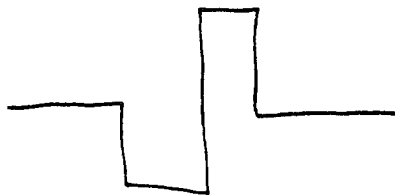
JC-4

Plan:

Analyze fringe transients



Determine damping algorithm



Attempt lock

