

Extra needs — SIS mixers

Spare compressor — losing 2/year — cooling & filtering problems  
+ \$20k

Equipment Rack — need mixer bias supplies, amp bias supplies  
+17K +13K = +30K

— IF spectrum analyzer  
+20K

Integrated IF +3K new XG & power supply

4.1.14 Noise test plate stuff was bought under 4.1.11 —  
transfer ~~40~~<sup>3</sup>K to 4.1.11 and ~~140~~<sup>17</sup>K to 4.1.7

4.1.16 increase LHe LN<sub>2</sub> by X2 over last 6 months

Software — AK will provide support \$

FTS — consider building? OLeson extenders?

Mixers — add up costs

Extra LO \$?