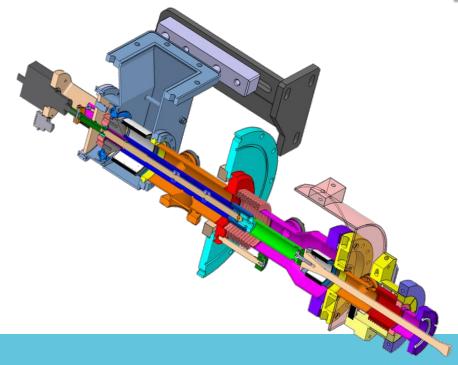
ILC-HiGrade Scientific and Annual Meeting

(LAL, 12 October, 2011)

Mickaël LACROIX (LAL)

ILC HiGrade WP7 couplers















Summary

- Strategy
- Subcontractor status (nov 2010)
- Issues
- Subcontractor status (last update)
- Situation on WP7













Strategy

- Goal
 - Add the ILC HiGrade coupler order to the XFEL order
- Advantages
 - Good XFEL production follow up
 - Mass production cost
- Disavantage
 - Linked with the XFEL schedule





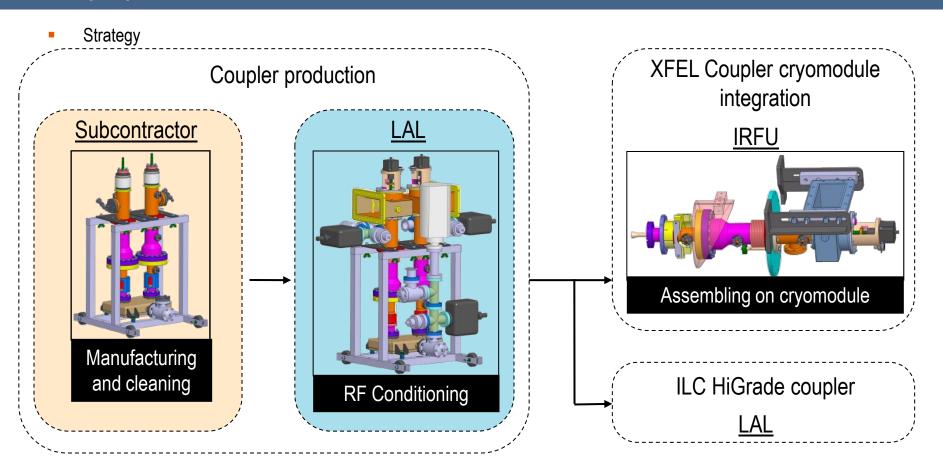








Coupler production













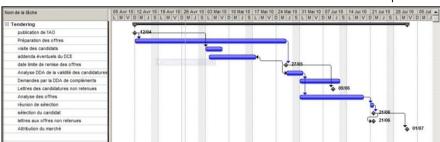


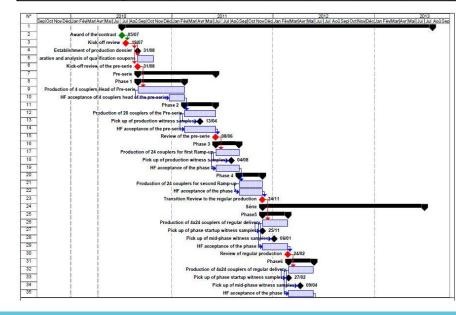
Coupler production

- Subcontractor status (november 2010)
 - Contract signed with Thalès RI on July 2010 with the following previous spliting:
 - 640 XFEL couplers
 - 24 ILC Higrade couplers
 - Deliveries:
 - 4 couplers expected by end of Feb 2011
 - 20 couplers expected by end of May 2011
 - 24 couplers expected by end of July 2011
 - **.**
 - Last 24 couplers expected by end of July 2013



First step















Coupler production

- Issues
 - 4 half prototypes with defects (April 2011):
 - Copper plating
 - Brasing junction
 - Miss of brazing material
 - Drop of brasing material
 - Welding
 - RRR measurement (August 2011):
 - Out of tolerance
 - → new manufacturing process
 - Brasing and copper plating
 - Or welding and copper plating (with an extra cost!!!???
 But TTF3 technology)















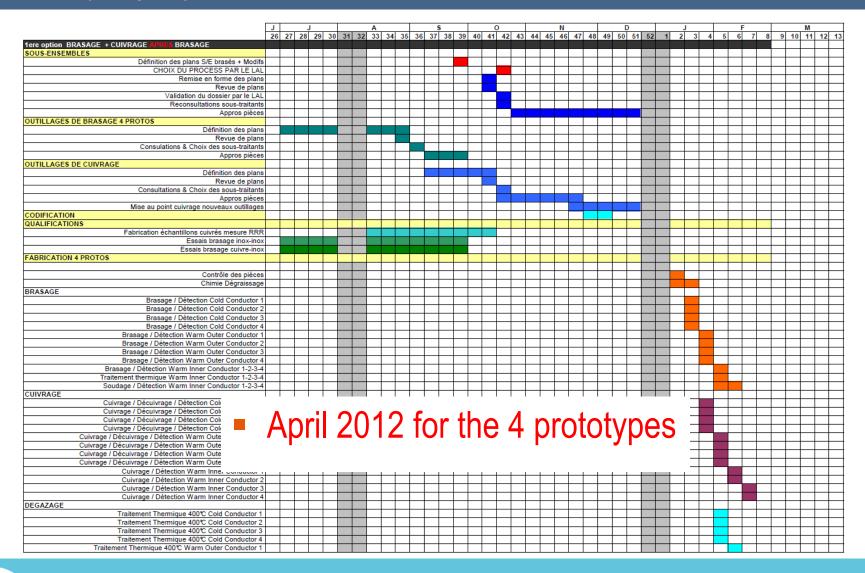






Probe RRR(Cu)	8-1 1.35	8-6 1.49	7-4 1.4	7-5 1.37
RRR(St)	1.45	1.46	1 38	1 36

Schedule (last update)













Situation of WP7

- 1. LAL is not able to complet his task before February 2012
- 2. The money will be refund to ILC HiGrade
- 3. As the order has been already signed by LAL to Thales-RI, the collaboration has to find a solution to be able to pay these couplers.
 - Moreover, as noticed before, an extra cost is possible which will not simplify the situation









