

Discussion on ERs timeline

JRPC meeting

Apr 9, 2014

ERs goals and timeline

“Instrument” point of view

- ❖ “Parasitic” IFO time (like IMC) is cheap; IMC available most of the times at both sites (except vents)
- ❖ Data Analysis community can declare ERs which do not affect the instrument (like IMC) whenever it is needed

ERs goals and timeline

“Instrument” point of view

- ❖ Time with full IFO without commissioning activity is much less cheap:
 - ❖ 1 week long ERs are useful to evaluate progress
 - ❖ ERs longer than 1 week will most likely be a waste of time (things to be fixed will be easy to find)

Current Integration Schedule

Advanced LIGO Integration: timeline scenario for 2014

April May June July August September October November

L1

Y-arm ALS

ALS: both arms

Full interferometer locking

OMC readout

Acceptance characterization & start of sensitivity commissioning

Project locking milestone

H1

Y-arm ALS & HIFO-XY
(2 arms + PRMI)

ITM replacement

DRMI

ALS: both arms

Full interferometer locking

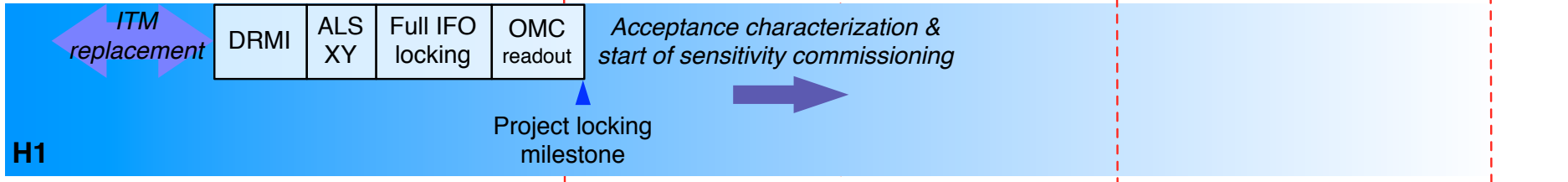
OMC readout

Project locking milestone

2014

2015

June July Aug Sept Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep



ER6
 Full IFO @ L1 (no commissioning)
 IMC @ H1 (parasitic test)
 --> **1 week**
 (it could be of course longer with "parasitic" IMC at both sites)

ER7
 Full IFO @ L1 (no commissioning)
 Full IFO @ H1 (no commissioning)
 --> **1 week**

ER8
 Full IFO @ L1 (no commissioning)
 Full IFO @ H1 (no commissioning)
 --> **2 weeks**

ER9 (pre-O1)
 Full IFO @ L1
 Full IFO @ H1
 --> **1 month**