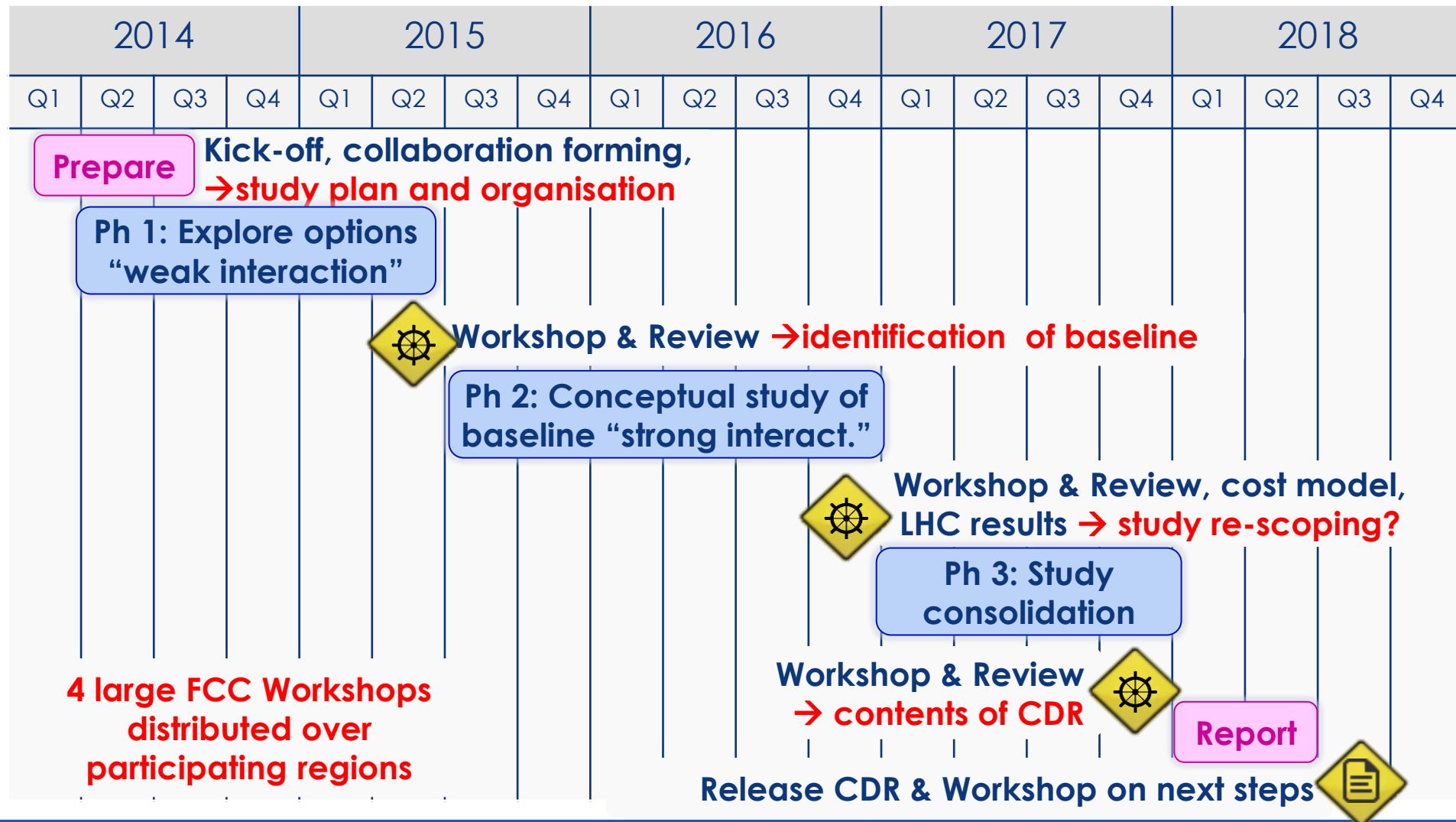




FCC news (e^+e^- flavour)

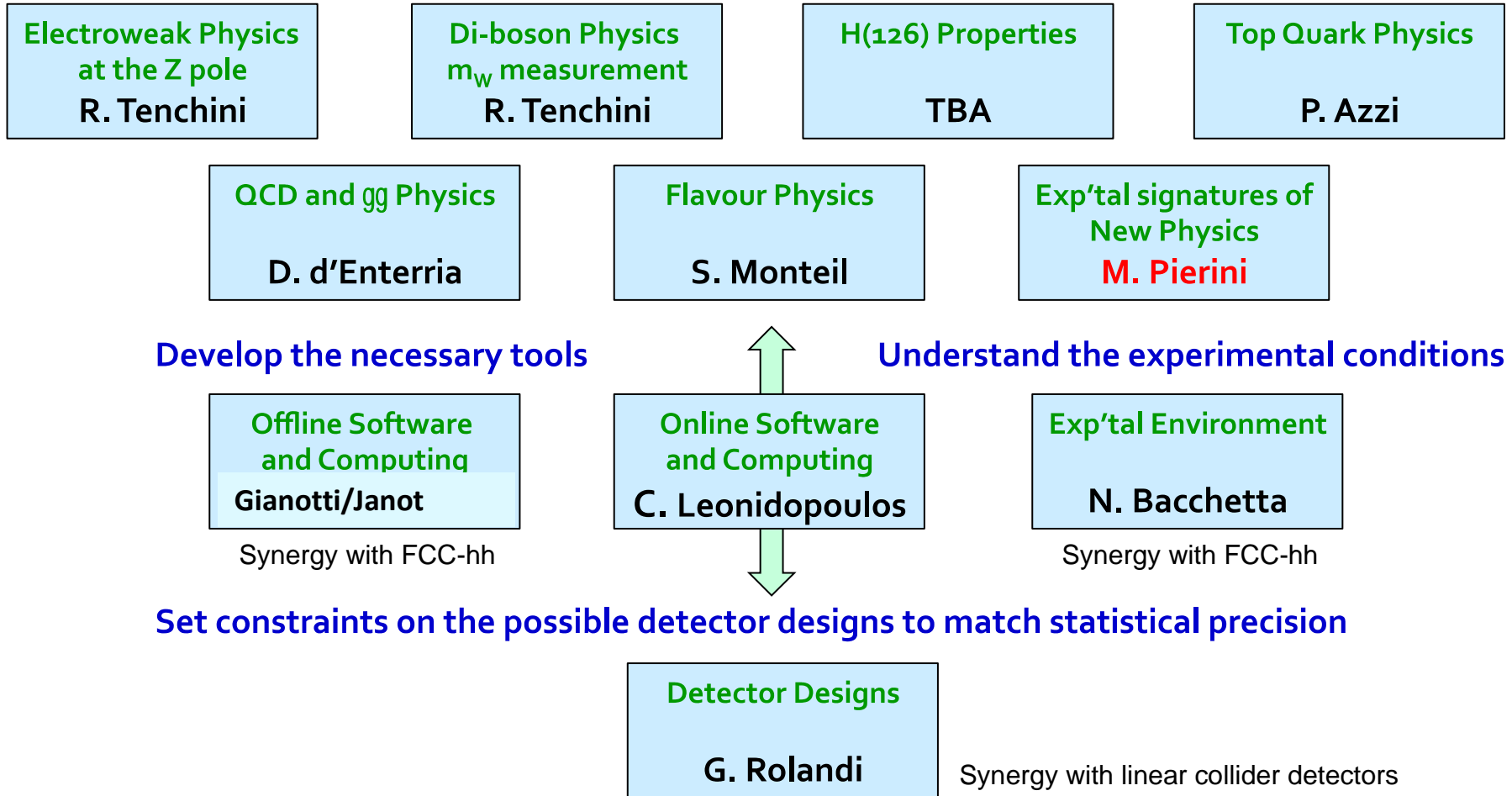


Proposal for FCC Study Time Line



Experimental Physics WBS (coordinators A. Blondel, P. Janot)

Study the properties of the Higgs and other particles with unprecedented precision



convener's job is to assemble collaborators and find co-convener in a global way



Software project -- Unified across the FCC

after meeting with PH-SFT leaders (Harvey + Mato) on 24 March, it is agreed that **Benedikt Hegner (PH-SFT)** will work part-time (starting with 20%) on an FCC-wide framework based on Gaudi -- help also from Andrea Valassi (IT).

Project is driven/supervised by Fabiola and Patrick for now; it will be taken over eventually by a small group comprising members from each FCC-flavours (Volunteers?).

The aim is to have software coherent between projects, nimble and incorporating latest technology.

For now, informal meetings are organised every week on Thursdays with the aim to have something operational , ready to have basic simulations running by the physics workshops in May and June 2014.





News from FCC-ee accelerator

see very nice talk by Frank at IOP meeting in UK IOP ‘town’ meeting
<http://indico.cern.ch/event/266149/overview>.

regular Accelerator Video conferences

- proposal of BINP (Novosibirsk) of crab crossing for increased luminosity at Z pole
- discussion on feasibility of ring with two bends to reduce depth
 - dispersion corrections and spin corrections need to be demonstrated.
- collaboration forming with agreements towards H2020 proposal





Conferences

It is important that FCC-ee is represented in conferences as it gives a more direct information to external people.

We are setting up across the FCC a 'speakers' board'.

Person in charge for FCC-ee accelerator issues: Jorg Wenninger and Frank Zimmermann,
For the FCC-ee(TLEP) physics: Mike Koratzinos ([<Michael.Koratzinos@cern.ch>](mailto:Michael.Koratzinos@cern.ch))

ICHEP 2014: first task is to propose TLEP physics abstracts for ICHEP

possible abstracts (not limitative).

Higgs Physics at FCC-ee (for the Higgs physics session)

Top quark physics at FCC-ee (top and electroweak session)

precision Electroweak measurements at FCC-ee (top and electroweak session)

Heavy neutrino hunting in Higgs- and Z decays at FCC-ee (neutrino physics session)

Strong Interactions physics: α_s measurement at FCC-ee (Strong interaction session)

Could you please let us know (**by reply to me and Mike before today 14 April**)

--1 if you have items to add to the list

--2 if you would like to submit an abstract (with a remote chance to get a talk)

--3 if you would like to nominate someone to submit an abstract and on which subject.





Next events

**regular FCC-ee/TLEP Video conferences
next is 19 May 2014**

FCC-ee physics workshop 19-21 June 2014 CERN TH auditorium

FCC-ee physics workshop in fall 2014 (in Paris?)

FCC-ee Physics workshop in winter 2014

leading us to the first FCC-ee physics milestone, the first document on the definition of physics landscape and study plans, required for March 2015.





-- FCC-ee (TLEP) physics workshop: 19-21 June 2014 TH audit.

<http://indico.cern.ch/event/313708/>

(non exhaustive) set of questions:

- Review the new-physics candidates to be considered and tested after the discovery of the H(125) Higgs Boson;
- review the progress on the FCC-ee machine expected performance and design and consider consequences for the detector designs;
- review the physics capabilities of the TeraZ, OKUW, Mega Higgs and Megatops;
- review theoretical calculations in view of expected experimental statistics and precisions;
- address possible run-up scenarios;
- Present the FCC software platform and first simulation studies;
- begin to set up detector requirements, investigating the large synergies and small differences with linear collider detector designs.
- ...





At its meeting on February 21, 2014 at DESY, ICFA issued a statement that *“ICFA supports studies of energy frontier circular colliders and encourages global coordination.”*

ICFA also approved the 55th ICFA Advanced Beam Dynamics Workshop on High Luminosity Circular e^+e^- Colliders.

It will take place October 8-11, 2014 in Beijing and be hosted by the Institute of High Energy Physics (IHEP).

The focus will be on Higgs factory.

Committee nominated, web site to appear soon

