



# Document preparation ALEGRO



# The ALEGRO report for the European Strategy Study 2020 **discussion in WG4**

ALEGRO 2018



- ❖ 1. **Introduction**; vision statement
- ❖ 2. **Review of the ANAR 2017 report**: reference
- ❖ 3. **Facilities using advanced acceleration**: ongoing project, current investments, results/status, spinoffs or synergy with other applications
- ❖ 4. **Our long-term goal: the Collider of the Future (COF), call for a better name? Compact Linear Collider?** introduce a few sets of parameters, discuss what is needed from the advanced accelerator technology so that the pieces fit together
- ❖ 5. **Physics considerations that justify the parameters of the COF energy and luminosity** (30 TeV,  $10^{36}$ ) (250GeV, ??), (1TeV, ??)
- ❖ 6. **COF CLC Machine components**  
For each component: what is achieved already ? what are the next milestones ? what are the possible show-stoppers, and how can these be addressed? planned near term test facilities
- ❖ 7. **integrated system**: 7.1 tolerances, 7.2 instrumentation, 7.3 simulation
- ❖ 8. **Partners and resources, current activity level. what is needed? What do we support?**

# The ALEGRO report for the European Strategy Study 2020 **with names for WG4**

ALEGRO 2018



- ❖ **1. Introduction;** vision statement Eric Esarey
- ❖ **2. Review of the ANAR 2017 report:** reference
- ❖ **3. Facilities using advanced acceleration:** Eu :Ralph Assman, US: Carl Schroeder, Asia:
- ❖ **4. Our long-term goal:** Carl Schroeder, Dan Gordon, Daniel Schulte
- ❖ **5. Physics considerations that justify the parameters of the COF energy and luminosity** (30 TeV,  $10^{36}$ ) (250GeV, ??), (1TeV, ??) physics group

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- ❖ **6. COF CLC Machine components**
- ❖ 6.1 e-/e+ sources, cooling; Ozgur Apsimon+positron group+Stefan Karsch (contributes)
- ❖ 6.2 accelerating structures; Simon Hooker, Pawan Kumar
- ❖ 6.3 Coupling/transport components between stages; Jens Osterhoff, Maxence Thevenet,
- ❖ 6.4 drivers , lasers Wim Leemans, Laura Corner, Stefan Karsch (contributes)
- ❖ 6.5 BDS: IP components and detectors, Andrei Seryi, Ralph Assmann, Stepan Bulanov
- ❖ **7 integrated system:**
- ❖ **7.1 tolerances**, Carl Schroeder, Daniel Schulte, PHI Nghiem/Jorge Viera
- ❖ **7.2 instrumentation**, Roxana Tarkashian, Jeroen van Tilborg
- ❖ **7.3 simulation** WG TMS
- ❖ **8. Partners and resources, current activity level. what is needed? What do we support?** Simon Hooker, Brigitte Cros

# Time plan and organisation for report

ALEGRO 2018



WG contribution expected **end of May**, WG leaders coordinate in their WG

1st complete draft in **June**, prepared from WG contributions by editing group (BC, PM, CS, volunteers among WG leaders?)

Distribution (ALEGRO and beyond) end of June for feed back until **end of July**

Discussion of available draft on **August 12th AAC meeting**



# Communication about ALEGRO

## Website:

Webpage in the ICFA ANA website

Repository for documents and links

Showcase for ANA related activity

## Provide input

<http://www.lpgp.u-psud.fr/icfaana/front-page>

## Talks at conferences : accelerators/HEP

May ARIES project meeting (P. Muggli)

July 4-11, ICHEP Corea: submit abstract, who can give this talk? **Abstract Urgently needed**

August AAC (B. Cros)

16-21 September, LINAC18 (B. Cros)