



# 5à7 : accès à l'année propédeutique. CMS et Centre Propédeutique

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- Centre Propédeutique:  
présentation du nouveau centre  
Simone Deparis
- CMS matu gymnasiale: retours  
sur la première édition  
François Genoud
- Summer School de  
mathématiques  
SPE et Orane Pouchon



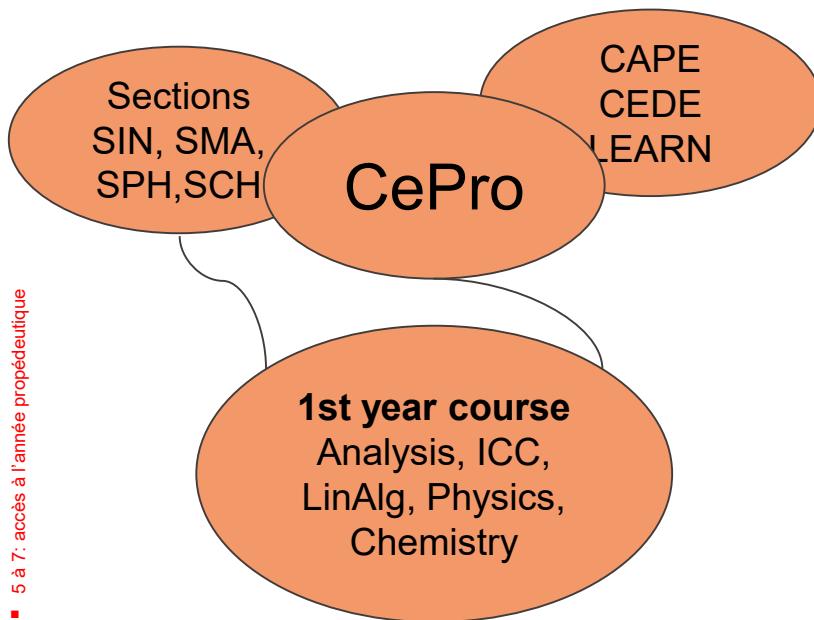
■ 5 à 7: accès à l'année propédeutique

# Simone Deparis

Présentation du centre  
Propédeutique de l'EPFL

## AVP -E

### Mission



### Short term

- **clear rules for TA&AE**
- **support 1y committee**
- identify fixes for Fall 21

### Medium term

- support 1y courses
- support 1y students
- training TA&AE

### Long term

- community of teachers
- innovation in teaching



# Focus 1: common 1y courses

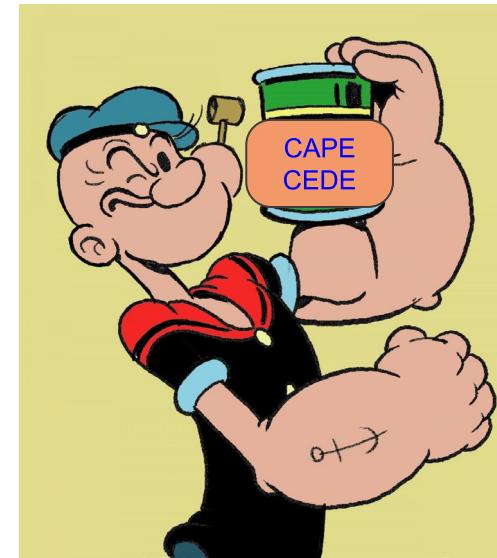
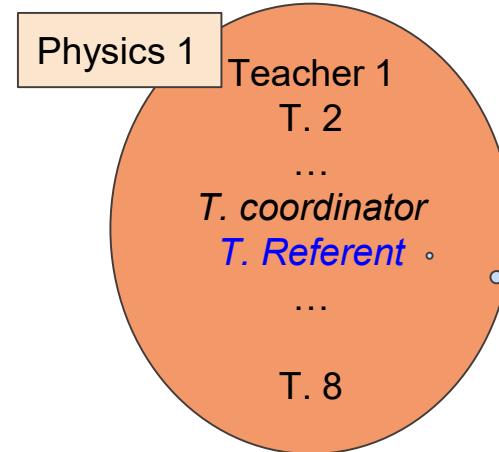
Each course

- ~2000 students
- ~8 teachers
- ~8 main TA
- 0-20 TA  
*(PhD students and Post-docs)*
- 60-100 AE  
*(student assistants and tutors)*
- 1 Coordinator: *leader of the teachers, reports to section*

Identify needs for

- exams
- exercises
- TA, AE
- Teachers

Propose support



who's this ?

## What does she/he ?

- teaches
- supports the principal TAs
- distributes material
- **trains** TAs and AEs, under the supervision of CePro and CAPE
- promotes innovation in teaching within the group

## Shall be

- a shared resource between the **serving section** and **CePro**
- 50% of her/his time dedicated to teaching and supports the coordination of 1y course
- needs 2 years for settlement
- co-financed at least 3y by CePro
- someone the service section trusts !

# Better training for assistants

TAs and student assistants need to be carefully trained and coached. Some training already exists, but after one session, the AE is left alone.

We propose to have the training organised in three steps:

- introductory session
- coaching during the semester (2 meetings)
- conclusive session

At the end

- AE gets a certificate (compulsory, 6h-8h)
- TA gets credits (2 ECTS in EDOC, elective)

The certificate also includes a short evaluation from the teacher of the course.



# Possible actions for 1y students

- Warm-up MOOC: 1 week for Analysis, Linear Algebra and Physics
- Revision sessions (Saturdays)
- Corrected exercises
- Developed exercises at exam

*1y committee*

But also

- Interactive teaching,
- support by student assistants, including **interacting** exercise sessions
- more (flexible) opportunities for learning

# What's the added value of CePro?

- Sharing of common practices
- Management of assistants (interface between service and receiving sections)
- Training of assistants and, with the contribution of the service sections, of the teachers
- Rationalize actions
- Catalyse innovation in teaching, including flipped classes and more in general, interactive teaching.

# CePro team



Executive director

Admin assistant

ITs (2)

CePro referents (3-5)

CAPE  
CEDE  
LEARN

Merci !

Suggestions ?



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# François Genoud

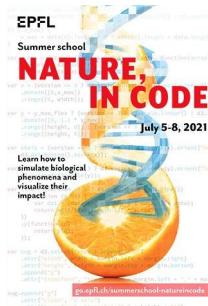
Retours sur la première  
édition du  
CMS matu gymnasiale

# Summer schools EPFL

Le Service de promotion de l'éducation organise des summer schools pour les élèves des gymnases de Suisse

- Acquisition de compétences dans des domaines scientifiques
- Approche innovante des sujets
- Occasion d'immersion sur le campus de l'EPFL
- En collaboration avec des experts
- Langue: anglais et/ou français

## Décloisonnement

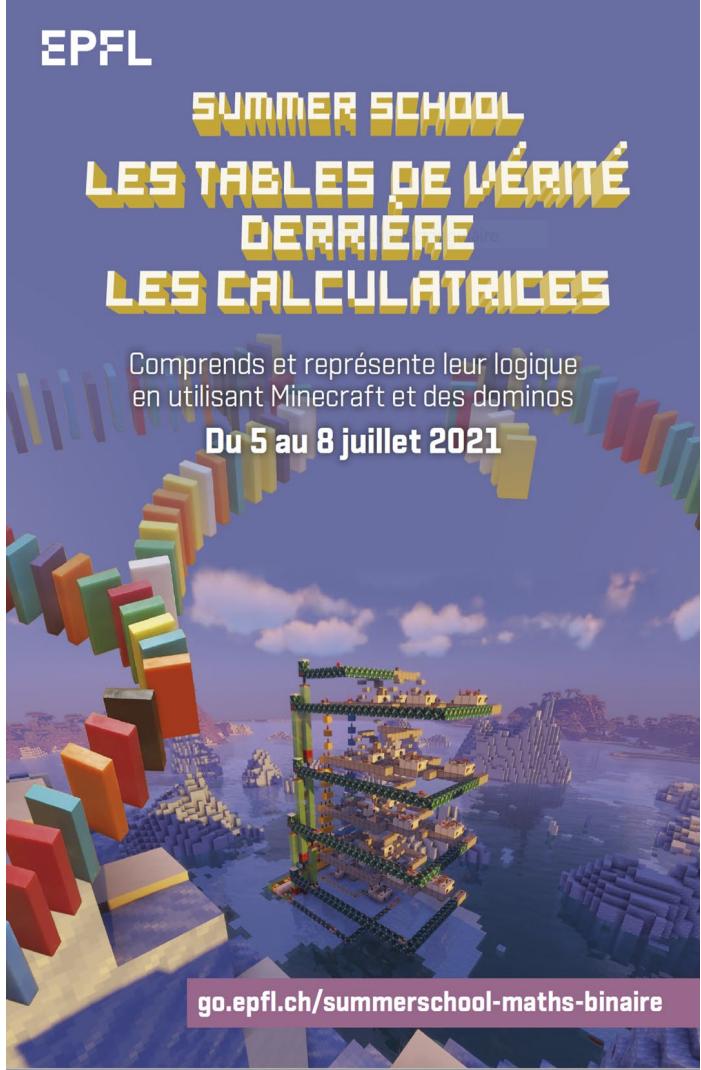


## Ambition scientifique



## Immersion





**SUMMER SCHOOL**  
**LES TABLES DE VÉRITÉ**  
**DERRIÈRE**  
**LES CALCULATRICES**

Comprends et représente leur logique en utilisant Minecraft et des dominos

Du 5 au 8 juillet 2021

[go.epfl.ch/summerschool-maths-binaire](http://go.epfl.ch/summerschool-maths-binaire)

# Summer school de mathématiques

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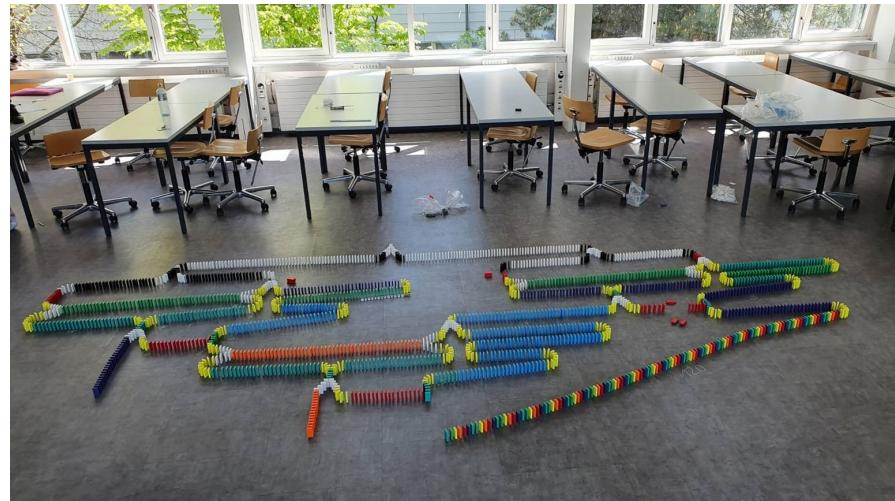
Construire des calculatrices en utilisant votre logique et adresse, tout en développant des concepts mathématiques

## Concepts mathématiques

- tables de vérité/porte logique
- système binaire et addition/soustraction
- Conception d'une calculatrice binaire (sur papier)

Création de deux calculatrices capables d'additionner des nombres binaires à 3 digits:

- dans Minecraft
- avec des dominos



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**Questions?  
suggestions,  
discussion**

