



# LION: Large Intelligent Optical Networks -

3<sup>rd</sup> meeting: EPFL

ChatGPT 4o ▾

make a picture of 15 scientist in a room in the BM building 4th floor talking about optical computing at EPFL





WP Leader	Tasks / entity	YEAR 1		YEAR 2		YEAR 3		YEAR 4	
		6	12	18	24	30	36	42	48
WPO LION EPFL, ETHZ, LKB									
WP1 EPFL	1.1 EPFL		M1						
	1.2 EPFL / ETHZ (Grange)		M1						
	1.3 EPFL								
WP2 LKB, EPFL	2.1 LKB, CNRS, EPFL		M1						
	2.2 EPFL								
	2.3 EPFL - ETHZ (Grange)								
WP3 ETHZ (Niao)	3.1 ETHZ, EPFL, LKB				M2				
	3.2 ETHZ, LKB, EPFL, CNRS				M2				
	3.3 LKB, ETHZ, EPFL, CNRS				M2				
WP4 EPFL, LKB, CNRS	4.1 EPFL, LKB/CNRS, ETHZ-Niao						M3		M4
	4.2 EPFL, LKB/CNRS, ETHZ-Niao						M3		M4

Partner meeting @ EPFL, June Besancon

Partner meeting @ EPFL

Partner meeting @ Paris



Action items:

Dissemination: Creating a project website

<https://www.epfl.ch/labs/lapd/funding/lion-large-intelligent-optical-networks/>



10H30: EPFL & Rachel's group – discussion on MZ chip – implementation of topology

12h00: Lunch brought in BM 5204

13h00:

20 min: Talk by Ulas / Mustafa (collab EPFL/ETHZ) : **Design Optimization of PICs for non-linear optical computing**

15 min : Andreas ETHZ: experiments with **PICs**

20 min: Talk by Leo Hsieh: **vTOLO: Vision Transformer with only linear optics: improved classification accuracy databases**

20 min :Talk by Ilker : **Optical Diffusion Model**

20 min Xue (Gigan's group): trace estimation and classification with **broadband light**

20 min: Daniel Brunner : advances in **3D integration**

15h00 : coffee break, discussion , next LION meeting

17h00: end