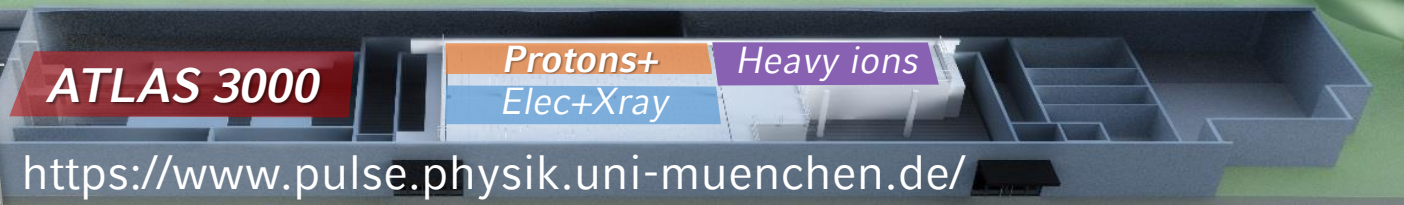
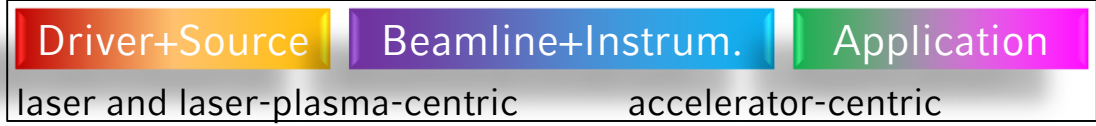


Laser-  
Plasma-Ion  
source:  
“Back-  
illuminated  
photo anode”

Home    protons    ions    <https://www.alpa.physik.uni-muenchen.de/>

TARG Series (Targetry for laser- driven sources)	BLIN Series (Beam Line optics and INstrumentation)	ALPA Series (Applications of Laser-driven Particle Acceleration)
<a href="#">TARG1</a> - 2013 (Garching)	<a href="#">BLIN1</a> - 2010 (Abingdon)	<a href="#">ALPA1</a> - 2015 (Venice)
<a href="#">TARG2</a> - 2015 (Paris)	<a href="#">BLIN2</a> - 2012 (Paris)	<a href="#">ALPA2</a> - 2019 (Prague)
<a href="#">TARG3</a> - 2017 (Salamanca)	<a href="#">BLIN3</a> - 2016 (Garching)	<a href="#">ALPA3</a> - 19-23 April 2021 (Prague-online)
<a href="#">TARG4</a> - 2019 (Milano)	<a href="#">BLIN4</a> - 2020 (Garching)	ALPA4 - 2023 (Prague)
<a href="#">TARG5</a> - Oct 25 - 27, 2021 (Dresden)	BLIN5 - 2022 (Garching)	ALPA5 - 2025 (Prague)



## François Sylla



*“Laser Plasma Accelerators to Address the Industrial Inspection Market”*

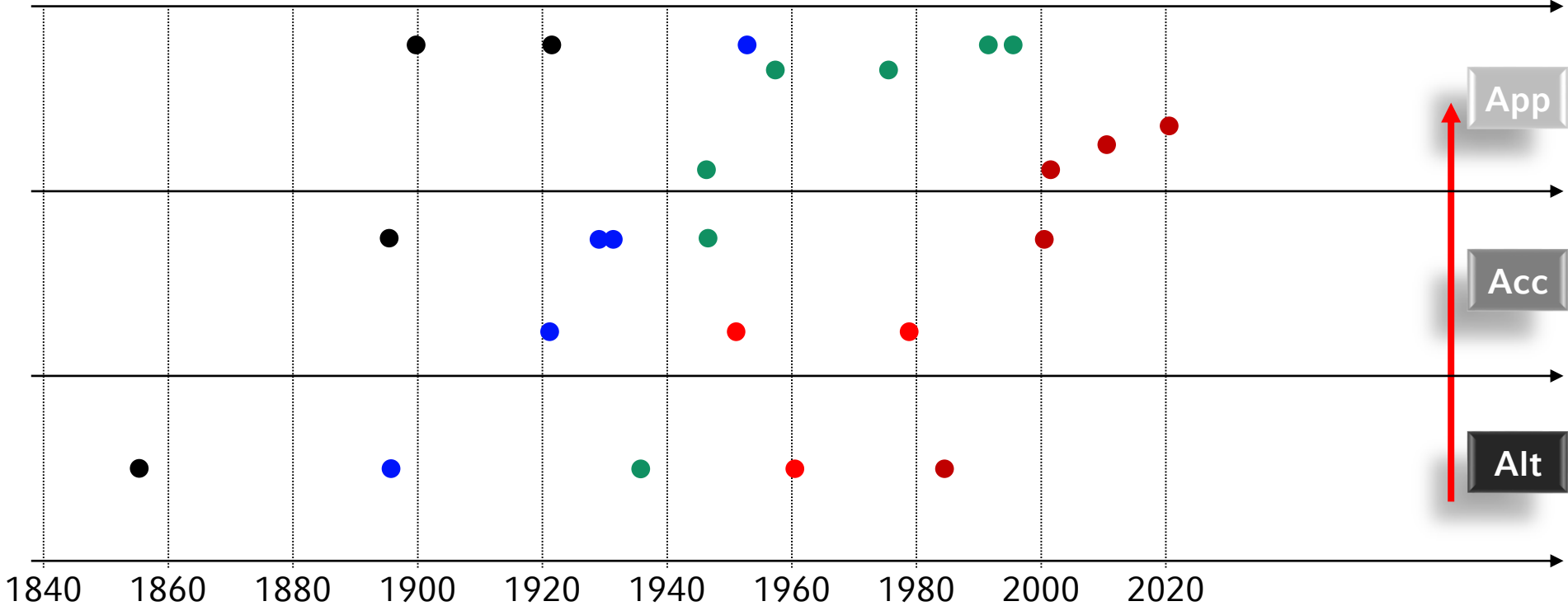
2007: Msc Optics & Photonics (ESPCI Paris, IC London)  
2011: PhD near crit. Plasmas (Ecole Polytechnique)  
2013: ERC POC, co-founder SourceLAB  
... : laser-plasma tech and inov. solutions e.g. for material inspection

## Ulrich Schramm



*“Establishing Laser Accelerated Proton Beam Performance for Dose Controlled Irradiation Studies”*

1991: Diploma (Heidelberg)  
1994: PhD atomic physics of heavy atoms (MPI Heidelberg)  
1996: beam cooling (LMU)  
1998: relativistic plasmas (LMU, MPQ Garching)  
2002: Habil “crystalline ion beams” (Röntgen-prize)  
2006: Laser-plasma research infrastructure (FZD/HZDR)  
2011: Director Inst. of Radiation Physics (HZDR)  
2014: 1<sup>st</sup> PW Experiments in Dresden  
2019: 1<sup>st</sup> stable laser-driven ion irradiation platform



## Applications



Acc technology

Cyclotron

Synchrotrons and LinAcc

Laser-based accelerating

Acc gradient

MeV/m

10 MeV/m

1...100 MeV/mm

High power sources

MHz,  $\mu$ s  
(Radio)

GHz, ns  
(TV/Radar)

Laser

PHz, fs  
(Communication)

1900

1920

1940

1960

1980

2000

2020

thumbnails from [https://science.osti.gov/-/media/hep/pdf/files/pdfs/Accel\\_for\\_Americas\\_Future\\_final\\_report.pdf](https://science.osti.gov/-/media/hep/pdf/files/pdfs/Accel_for_Americas_Future_final_report.pdf)