



Max

70 years

2021

May all your dreams
come true!

Wishing you a

Belated

Happy

Birthday!

70th birthday is an appropriate date;

- **First date to look back at achievements and to reorganize your activities,**
 - **advance somewhat slower,**
put more responsibilities on younger generation



We listened to Max's achievements presented by speakers
Reminds me cardinal's birthday, little story

I Can testify that everything reported is true!

Decorations

1984 Max-von-Laue-Medaille of **Academy of Sciences DDR**
for measuring the asymmetry of positive and negative muons in the BCDMS Collaboration at
CERN

2013 Max-Born-Prize of the **German
Physical Society**
for fundamental experimental contributions for
the investigation of the structure of the protons
with deep inelastic electron scattering at **HERA at
DESY**



Appointment as Professor at Liverpool



- Famous Physics Department with long tradition

Chadwick's SC

- **Janes Chadwick**
Synchrocyclotron. Nuclear physics, neutron
- Important contribution to development of CERN SC



I must mention again what I consider as
Max's most important achievement:

creating, promoting and holding together
the **LHeC study group longer than a decade**
with determination and insistency
together with **Oliver Brüning**

International Advisory Committee IAC

in set up 2013 by DG Rolf Heuer

I was asked to chair it

Max and Oliver
at work



Many meetings. Workshops and recommendations



Most recent LHeC workshop at Chavanne 2018

**Enormous work has been done by hundreds of colleagues
Results documented in many reports.
As reported by previous speakers**

Immediate success of LHeC Activities and IAC recommendation

Creation of **PERLE project**
developing the **ERL technology**

Responsibility
Achille Stocci
and **Joliot Curie Laboratory**



at **PERLE workshop**
Orsay October 2022

The main results of LHeC will become important only when decisions for the large projects for particle physics will be taken

All large projects (e.g. FEEC, FCC, ILC) have in common some fundamental problems:

- **Enormous energy consumption**
- **high cost and very long time scales**
- **difficulty to explain added value to society and politicians**
- **Final decision will be influenced by. political considerations- prestige,**

All possible options will be valuable to guarantee the future of CERN, so precious for EUROPE and particle physics

Allow some **Personal remarks** concerning the relations between Max and me

Until recently we never had a chance to work together

This is natural because of our difference in age

By chance your father, Fritz Klein junior, a well known historian and literate, was born in same year as me

Only thanks to LHeC activities and IAC we could establish a close cooperation and excellent understanding within in a short time.

We found out that our lives were indirectly interwoven in many respects

Looking at your CV I found that
you studied at Berlin at the Humboldt university.

The PhD you made at Institute for particle physics at Zeuthen
(Berlin) - after German unification now part of DESY

later you worked at
Dubna
DESY, and CERN

In all these places I also had been been active before you
So **common experiences and shared adventure**

Also **in private life** we had similar fates

We both suffered from **dramatic political changes**

I as refugee from Czechoslovakia,

You were directly affected by the problems following unification of Germany.

All this provided an **excellent background** for mutual understanding and sharing similar general views

We became friends in an incredibly short time

- I learned to appreciate your **personality**
- Not only as physicist
- but your **general education and interest in culture and literature,**
Bildung as we say in German
- I admire your **dry humor,**
- you can aptly characterise a situation or stigmatise it by a short remark very often by a quotation from literature



An example:

**when discussing the behaviour of some colleagues putting forward too much their ego
Max observed by quoting**

Goethe has said everybody wants to play the 1, violin but the 2, violin or flute are also beautiful instruments. And Leonard Bernstein said the best orchestra are the ones with the best second violin since without them there is no harmony.

This is the secret why Max was so successful in collaborations:

Max remained overmodest and reserved in the back seat often guiding from there

The second violin



The formation of such a personality would not have been possible without being imbedded in an **impressive family** living in harmony



**Max with mother,
brother Wolfgang (literature),
sister Katharina (art)**



**Max and mother (expert in Slavistic)
in a British library**

And of course, a **charming wife Uta** who with all her competence could not only help you in all LHeC activities but she is so full of joy of life and charm, which she can transmit to others and contributes to your general happiness



**advice by an old friend : in future
relax, spend more time with your family**



Best wishes for many years

. And we still need you

• Ad multos annos!

















At workshop at Orsay 2022
HS, Uta, Oliver Fischer , Max