

20 th RDMS CMS Conference

Russia and Dubna Member States CMS Collaboration

I.Golutvin

Opening

Introductory talk

12 September, Tashkent, Uzbekistan



First of all I would like to express many thanks to

Prof. Bekhzod Yuldashev – Prezident of the Academy of Sciences of Uzbekistan

for kind invitation and support of this Jubilee Conference in Uzbekistan



Welcome

all the participants who came with us to Tashkent to attend the 20th Annual RDMS CMS Conference

Special thanks to Speakers!

20th Annual RDMS CMS Collaboration Conference



Conference dedicated to new physics results, Future Physics beyond the LHC era, and the CMS Detector Upgrade, including Endcap Calorimetry

Registration: http://rdms2018.jinr.ru/

Contacts: Bekhzad. Yuldashev@cern.ch, frdept@academy.uz, zekie@inp.uz,

Anatoli.Zarubin@cern.ch

Co-chairs: I.Golutvin (JINR), B.Yuldashev (INP, UAS)

Deputy-chair: G.Kozlov (JINR)

Scientific secretary: A.Zarubin (JINR)

Organising Committee: R.Khalmuradov, S.Mirzaev, I.Sadykov, M.Tashmetov (INP UAS),

T.Donskova, M.Gavrilenko, V.Korenkov, I.Semenyushkin, S.Shmatov (JINR),

E.Boos (MSU), V.Kim (PNPI), I.Vankov (INRE BAS)

Program Committee: V.Matveev (JINR) - Co-chair, K.Borras (DESY) - Co-chair,

J.Butler (Fermilab), R.Carlin (Padova), M.Danilov (MEPhI),
I.Dremin (LPI), V.Gavrilov (ITEP), S.Gninenko (INR),
I.Golutvin (JINR), B.Grinev (Ukraine), N.Krasnikov (INR),
A.Khvedelidze (Georgia), L.Levchuk (KPTI), L.Litov (SU), L.Malgeri (CERN),
M.Mannelli (CERN), A.Sirunyan (Armenia), Yu.Skovpen (NSU),
J.Suares (Belarus), R.Tenchini (Pisa), G.Tonelli (Pisa), N.Tyurin (IHEP),
A.Vorobyov (PNPI), A.Zarubin (JINR), B.Yuldashev (INP, UAS)

Organizers:

Uzbekistan Academy of Sciences, Institute of Nuclear Physics (Tashkent), Samarkand State University (Samarkand), JINR (Dubna), CERN (Geneva)











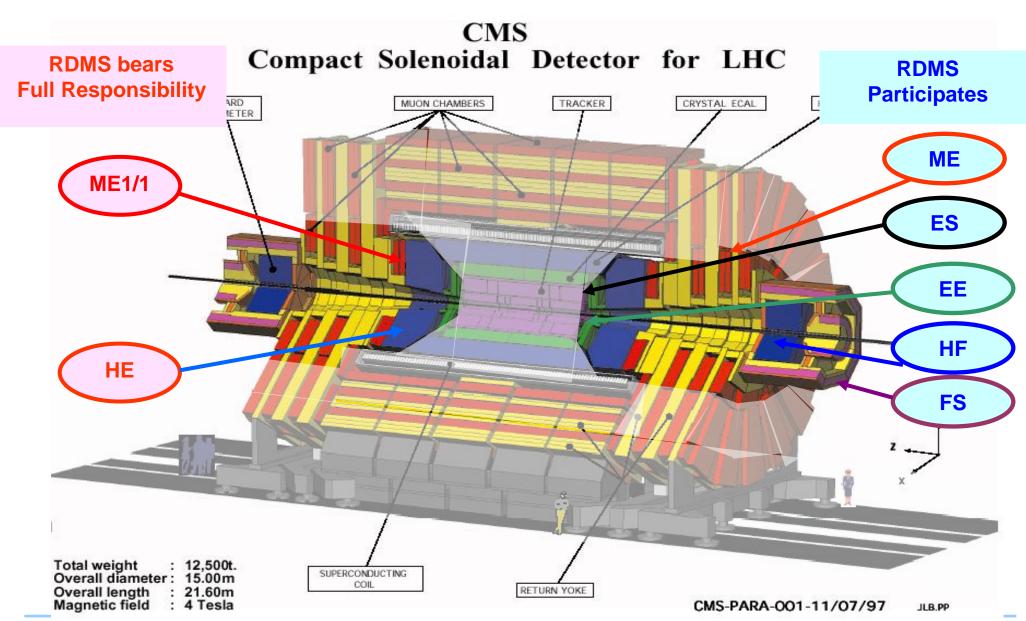
Uzbekistan, 12-15.09.2018

RDMS CMS Conferences founded since 1995 with a wide geography

CERN, Geneva	I-IV	1995-
		1999
ITEP, Moscow,	V	2000
MSU, Moscow,	VI	2001
Protvino,	VII	2002
Dubna,	VIII	2003
Minsk,	IX	2004
Gatchina,	X	2005
Varna,	XI	2006
Minsk,	XII	2008
Dubna,	XIII	2009
Varna,	XIV	2010
Alushta,	XV	2011
Erevan,	XVI	2013
Dubna,	XVII	2014
Varna,	XVIII	2015
Varna,	XIV	2016
Tashkent-Samarkand,	XX	2018



Present CMS Configuration





Huge RDMS Contribution to CMS construction, operation, data taking and analysis

RDMS scientists invented new detectors and developed their wide application

The present CMS status will be presented in overviews talks of K.Borras and J.Batler



All CMS physics results reported by now have been obtained at this apparatus



During long CMS way we lost many brilliant RDMS physicists



Vitali Kaftanov, Petr Moissenz, Viktor Konoplyanikov, Anton Volodko, Vlado Genchev, Igor Gramenitsky, Dmitry Smolin, Sergey Rusakov, Vladimir Roinishvili, Victor Kryshkiv, Pavel Sorokin, Nikolai Shumeiko, Elena Tikhonenko

who made important contribution to the CMS Experiment and its achievements in frontier Physics



Main Achievement of CMS and ATLAS - discovery and investigation of neutral Higgs Boson

- December 2011 evidence of new boson with mass of 125 GeV
 - at 7 TeV for 5.1 fb⁻¹ with \sim 3 σ
- July 2012 discovery of new boson with mass of 125 GeV
 - at 7, 8 TeV for 5.1, 5.3 fb⁻¹ with ~5 σ

Higgs to bosons and fermions coupling constant measurements:

- - at 7, 8, 13 TeV for 5.1, 19.7, 35.9 fb⁻¹
- April 2018 $H \rightarrow tt$
 - at 13 TeV for 35.9 fb⁻¹
- - at 13 TeV for 35.9 fb⁻¹

Talk of G.Tonelli at Physics result morning session I



Topics

to discuss at this Conference



12 September, Wednesday

CMS new physics results and nearterm perspectives

Presentation of Russian edition of Book A.Nisatti and G.Tonelli «The Discovery of the Higgs Boson at the LHC»



13 September, Thirsday

Long-term future plans of the LHC and other machines

Perspectives on Physics in the HL-LHC era and beyond



14 September, Friday

Trip to Samarkand and Public lectures at the Samarkand State University with wide participation of students

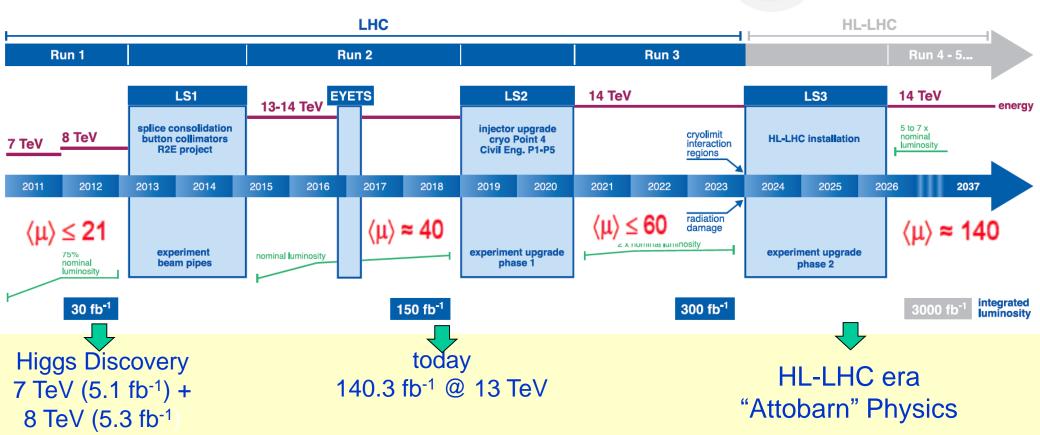


15 September, Saturday

CMS Phase II Upgrade with focus at HGCAL

LHC / HL-LHC Plan







15 September, Saturday

We hope the discovery potential of upgrated CMS Detector will be considerably increased, and

We expect the new generation of CMS physicists will make significant progress in our knowledge of structure of the matter



The main goal of the meeting - to help to optimize a strategy of future investigations at **CMS** after Upgrade



Have a nice meeting!



Important Announce

Dear Speakers!

The Proceedings will be published.

In a month after the Conference the text of about 5-7 pages (in agreement with organizers) should be delivered to:

Anatoli.Zarubin@cern.ch

either in MS Word or LaTeX (see template at conference site).

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- Long-term future plans of the LHC and other machines.
- Perspectives on Physics in the HL-LHC era and beyond.

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15 September, Saturday

- Perspectives on the CMS Phase II Upgrade and Detector in the Long-term.
- On RDMS participation in HGCAL.

Agenda:

https://indico.cern.ch/event/754760/timetable

pswd: RDMS2018