



Museo Storico della Fisica e  
Centro Studi e Ricerche Enrico Fermi

# ADVANCED ANALYTICS OF THE DATA QUALITY MONITOR WEBSITE FOR THE **EXTREME ENERGY EVENTS** PROJECT

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*Museo Storico della Fisica e Centro Studi e Ricerche "Enrico Fermi"*

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# EEE PROJECT

The main goal of the **Extreme Energy Events Project** is to study the high-energy cosmic radiation.

This is accomplished through a network of about **50 muon telescopes** distributed throughout the Italian territory.

# EEE MUON TELESCOPE



Each **telescope** consists of **three Multigap Resistive Plate Chambers** used for particle detection and tracing.

In the last Data Acquisition **Run** of this network, from **7/11/2015** to **20/5/2016**, **15 billions of candidate tracks** have been reconstructed.



## Progetto Extreme Energy Events - La Scienza nelle Scuole

# EEE Monitor

Ultimo aggiornamento: ore 09:42 - mar 31 maggio 2016 [by e3monitor]

<a href="#">ELOGBOOK delle SCUOLE</a>	<a href="#">ELOGBOOK dello SHIFTER</a>	<a href="#">New DB Interface (BETA)</a>
<a href="#">Home Page EEE</a>	<a href="#">Masterclass</a>	<a href="#">Download the Excel Sheet for the Shifter's Report</a>

***RUN 2 ended on May 20, 2016. RUN 3 will start in autumn.***

**Total number of candidate tracks ( $X^2 < 10$ ) in the database: 25341835427**

Questa tabella mostra la situazione dei telescopi in acquisizione:

In **verde** sono indicati i telescopi in presa dati e trasferimento nelle ultime 3 ore e con parametri di acquisizione ragionevoli nell'ultimo run analizzato.

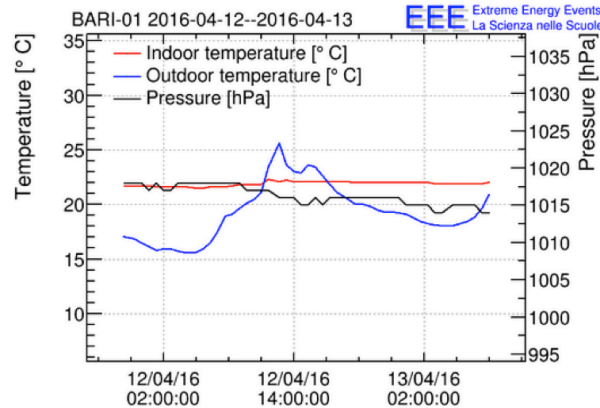
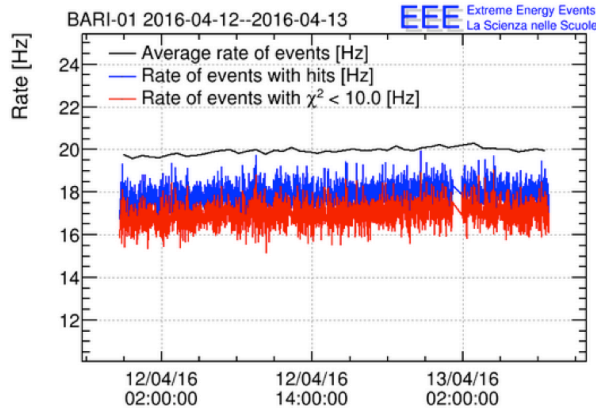
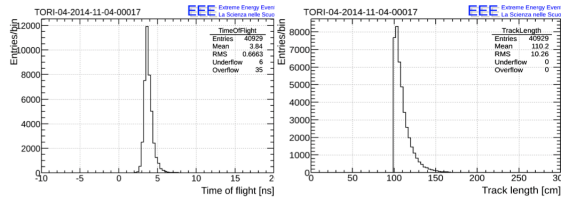
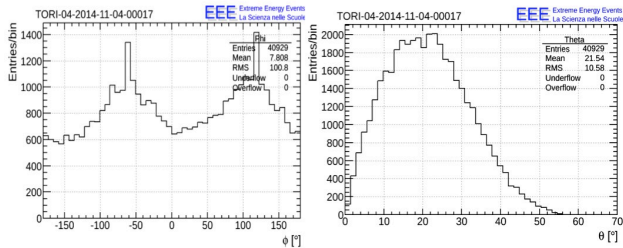
In **giallo** sono indicati i telescopi in cui trasferimento e/o acquisizione sono sospesi da più di 3 ore o con tracce ( $X^2 < 10$ ) minori di 10 Hz nell'ultimo run analizzato.

In **rosso** sono indicati i telescopi in cui trasferimento e/o acquisizione sono sospesi da più di due giorni o con tracce ( $X^2 < 10$ ) minori di 5Hz nell'ultimo run analizzato.

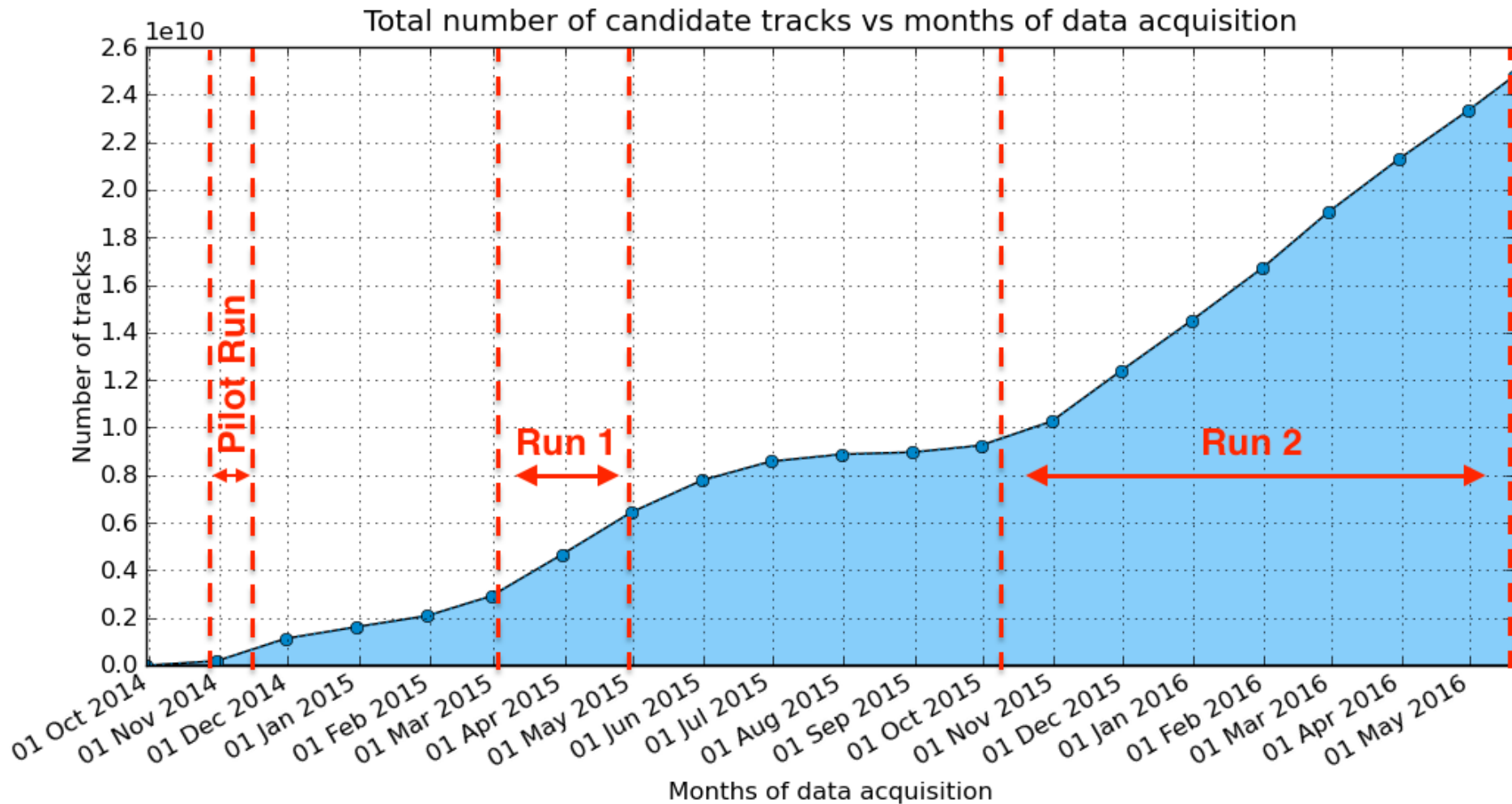
Scuola	Giorno	Ora	Nome dell'ultimo File trasferito	Numero Files trasferiti oggi	Ultima Entry nell'e-logbook delle Scuole del Run2	Nome dell'ultimo File analizzato dal DQM	Report giornaliero DQM	RATE of Triggers for the last Run in DQM	RATE of Tracks for the last Run in DQM	Link DQM
ALTA-01	ven 20 maggio	08:29	ALTA-01-2016-05-20-00020.bin	0 [History]	12:56 19/05/2016	ALTA-01-2016-05-20-00020.bin	21/05 [History]	29.0	21.0	ALTA-01
AREZ-01	lun 30 maggio	00:27	AREZ-01-2016-05-29-00054.bin	0 [History]	22:09 25/05/2016	AREZ-01-2016-05-29-00054.bin	30/05 [History]	33.0	24.0	AREZ-01

# EEE MONITOR AND DQM

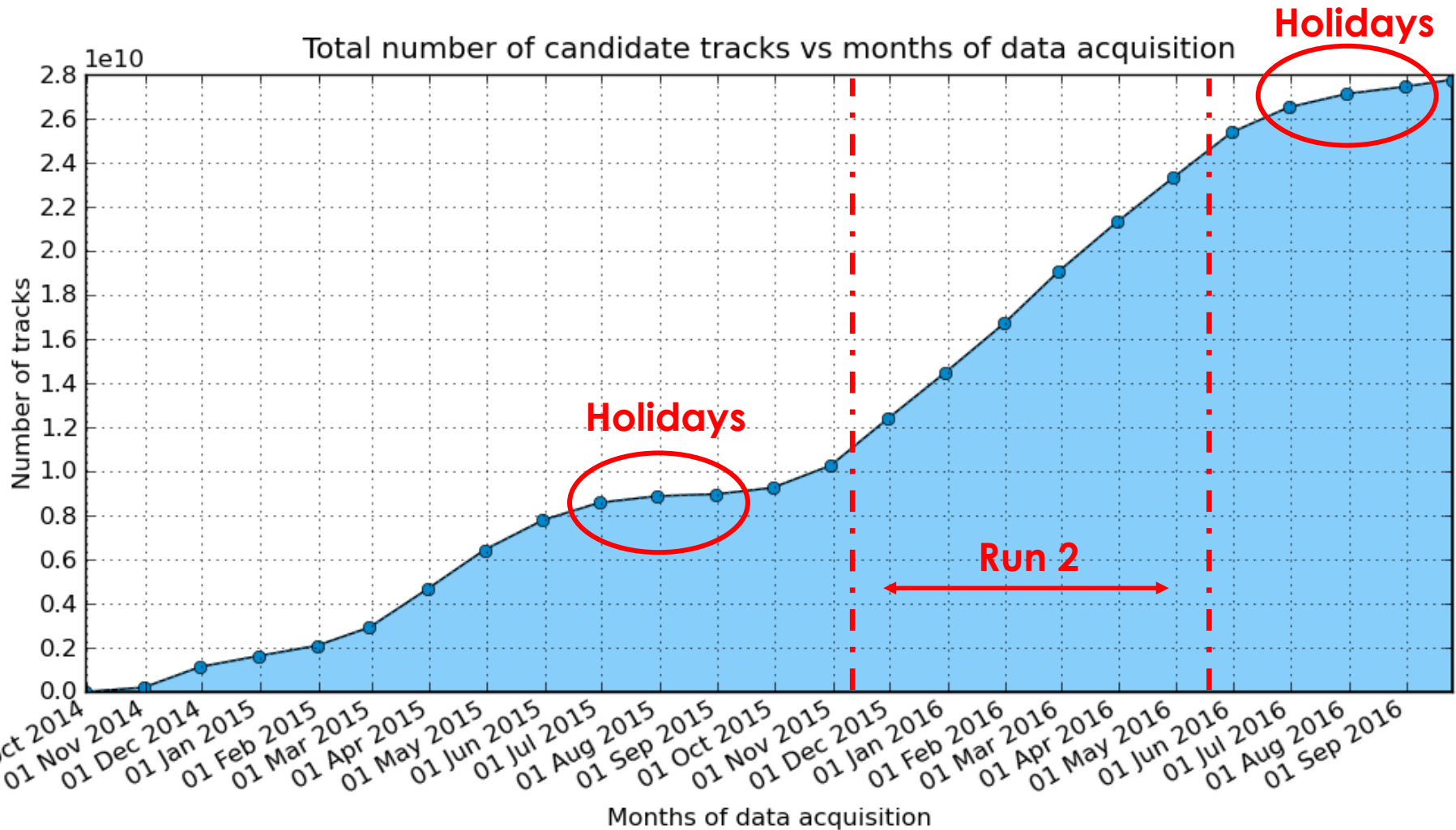
GROS-02	mar 12 luglio	09:53	GROS-02-2016-07-12-00020.bin	0 [History]	09:44 21/05/2016	GROS-02-2016-07-12-00020.bin	13/07 [History]	29.0	26.0	GROS-02
LAQU-01	dom 25 settembre	08:11	LAQU-01-2016-09-25-00028.bin	0 [History]	10:46 06/06/2016	LAQU-01-2016-09-25-00026.bin	25/09 [History]	40.0	33.0	LAQU-01
LAQU-02	lun 26 settembre	09:56	LAQU-02-2016-09-26-00026.bin	27 [History]	11:16 21/03/2016	LAQU-02-2016-09-26-00026.bin	26/09 [History]	37.0	33.0	LAQU-02



# CANDIDATE TRACKS



# SCHOOL HOLIDAYS AND CANDIDATE TRACKS



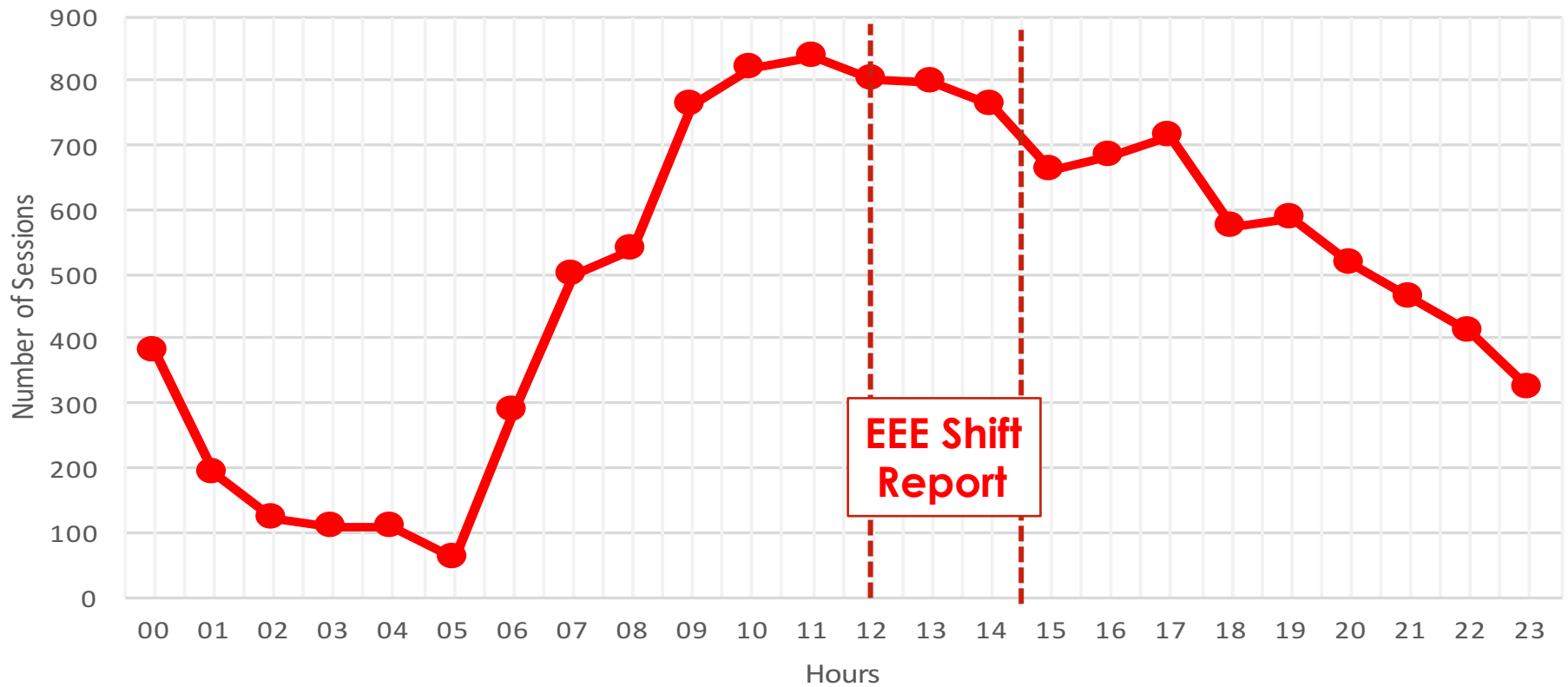
# PAGEVIEWS AND SESSIONS (EEE RUN 2)





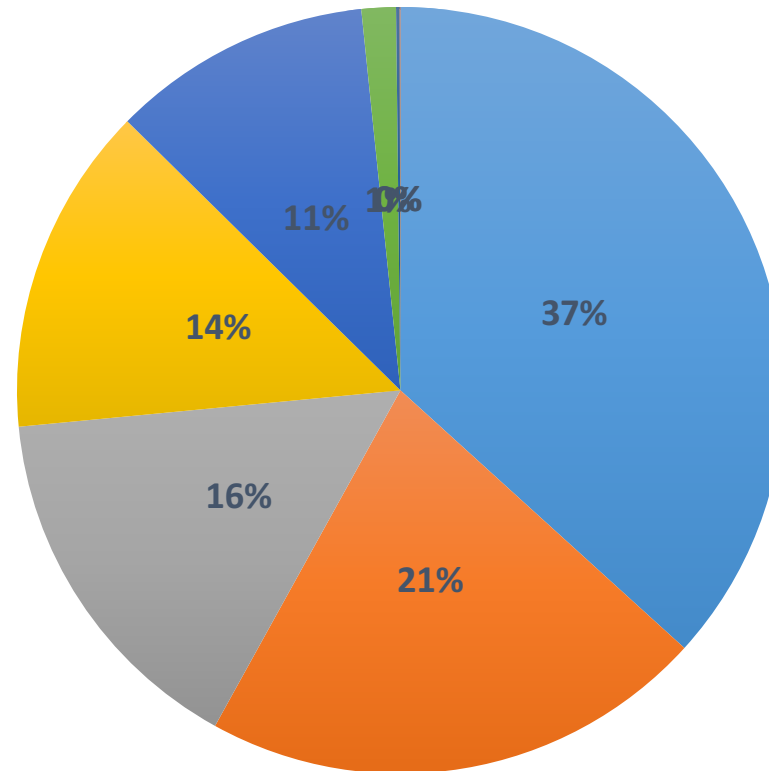
# ACCESS BASED ON TIME

Sessions per hour



# OPERATING SYSTEM

Sessions for Operating System

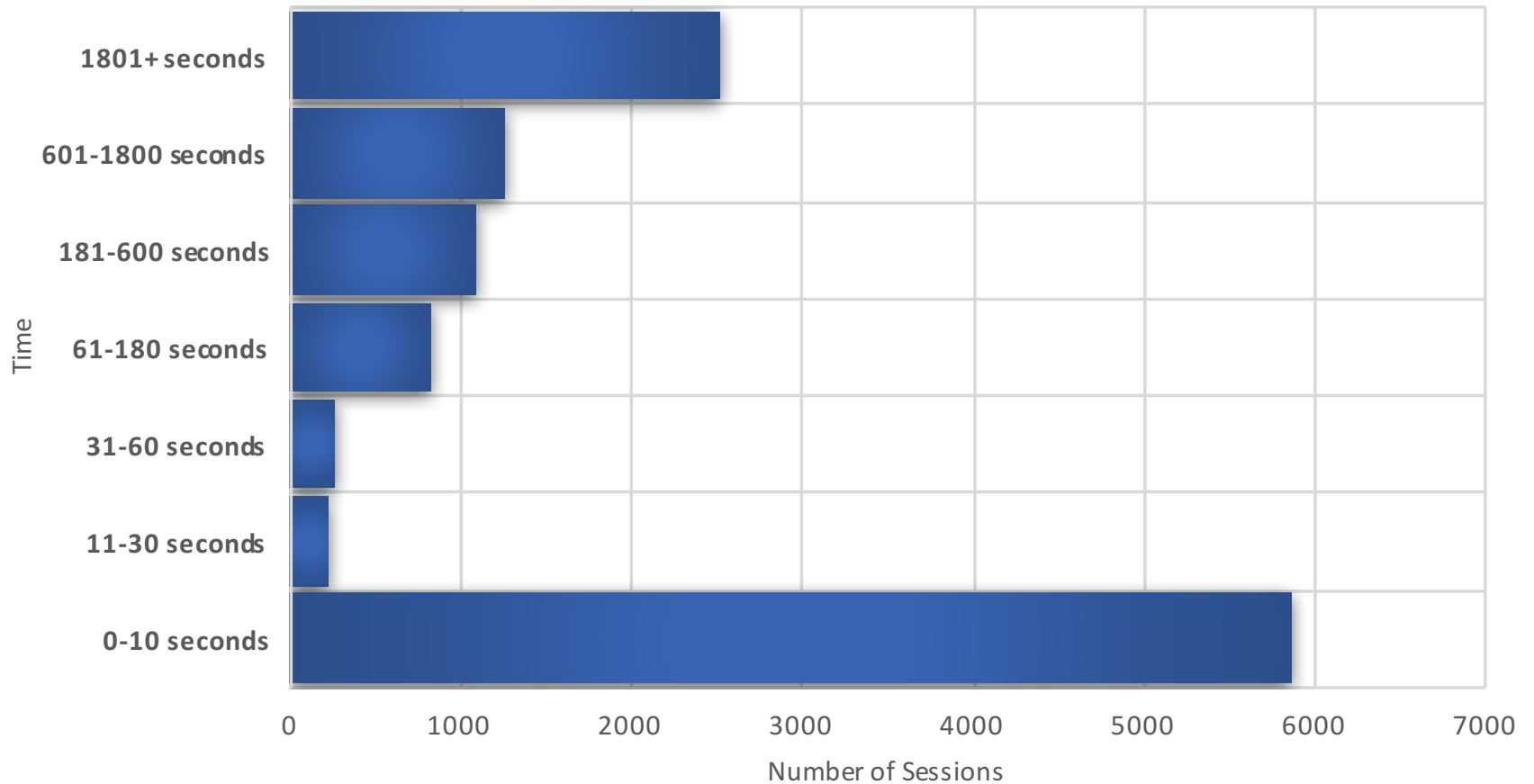


■ Windows    ■ Macintosh    ■ iOS    ■ Android  
■ Linux    ■ Windows Phone    ■ (not set)    ■ SymbianOS

**Turns out that ~30% of all sessions come from mobile systems (!!)**

# ENGAGEMENT

## Session duration



**Check 'n Go!!**

# ACQUISITION

	Acquisition		
	Sessions ↓	% New Sessions ↓	New Users ↓
	12,009	18.72%	2,248
1 <span style="color: blue;">■</span> Direct	7,777	<div style="width: 64.8%;"><div style="width: 64.8%;"></div></div>	
2 <span style="color: green;">■</span> Organic Search	2,938	<div style="width: 24.5%;"><div style="width: 24.5%;"></div></div>	
3 <span style="color: orange;">■</span> Referral	1,261	<div style="width: 10.5%;"><div style="width: 10.5%;"></div></div>	
4 <span style="color: yellow;">■</span> Social	33	<div style="width: 0.3%;"><div style="width: 0.3%;"></div></div>	

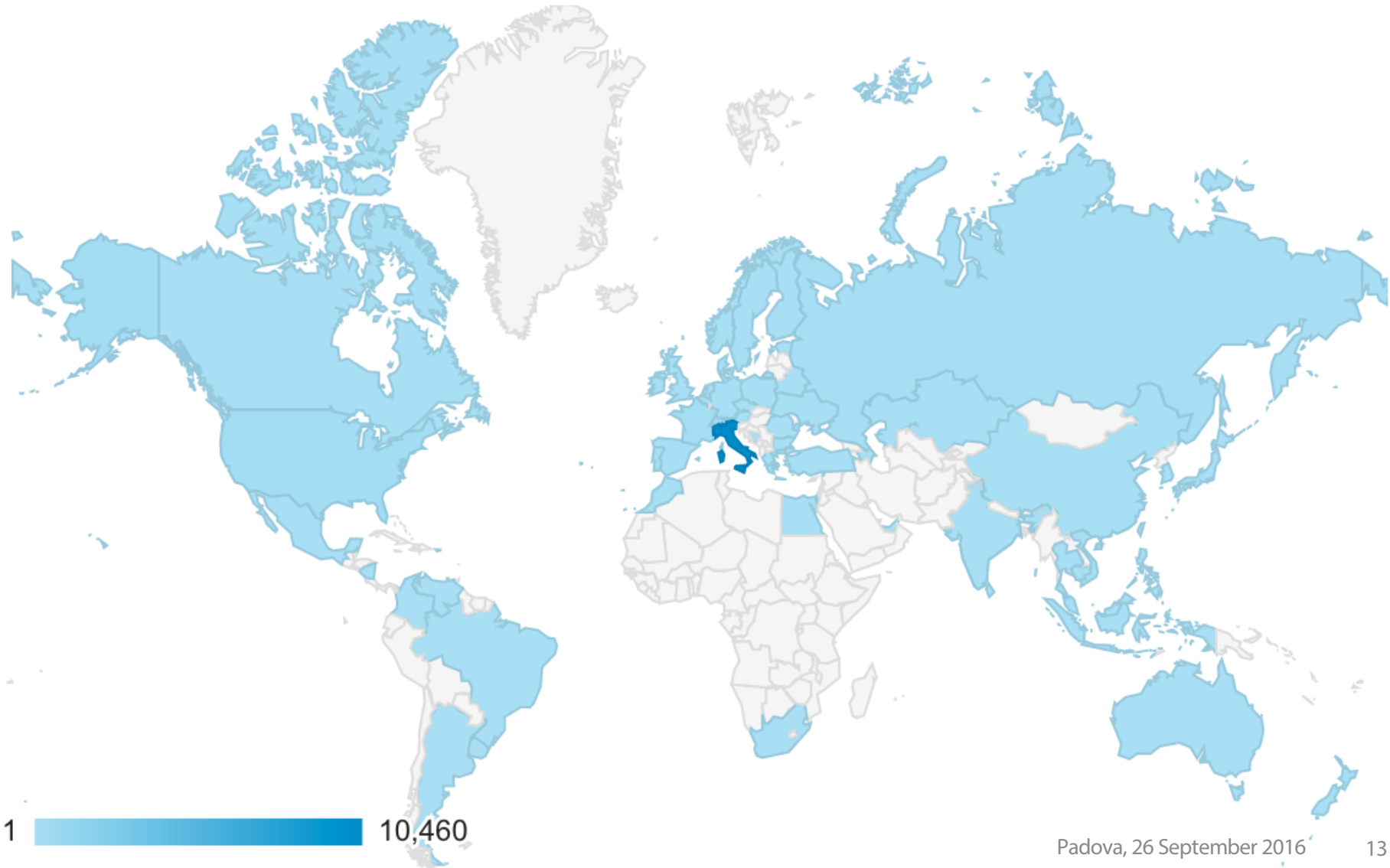


*"Portare  
la scienza  
nel cuore  
dei giovani"*

*Antonino Zichichi*



# GEOLOCATION (WORLD)



1 10,460

# GEOLOCATION (ITALY)

