

INTERNATIONAL COSMIC DAY

Measurement of the muon flux



In cooperation with
many networks and partners:



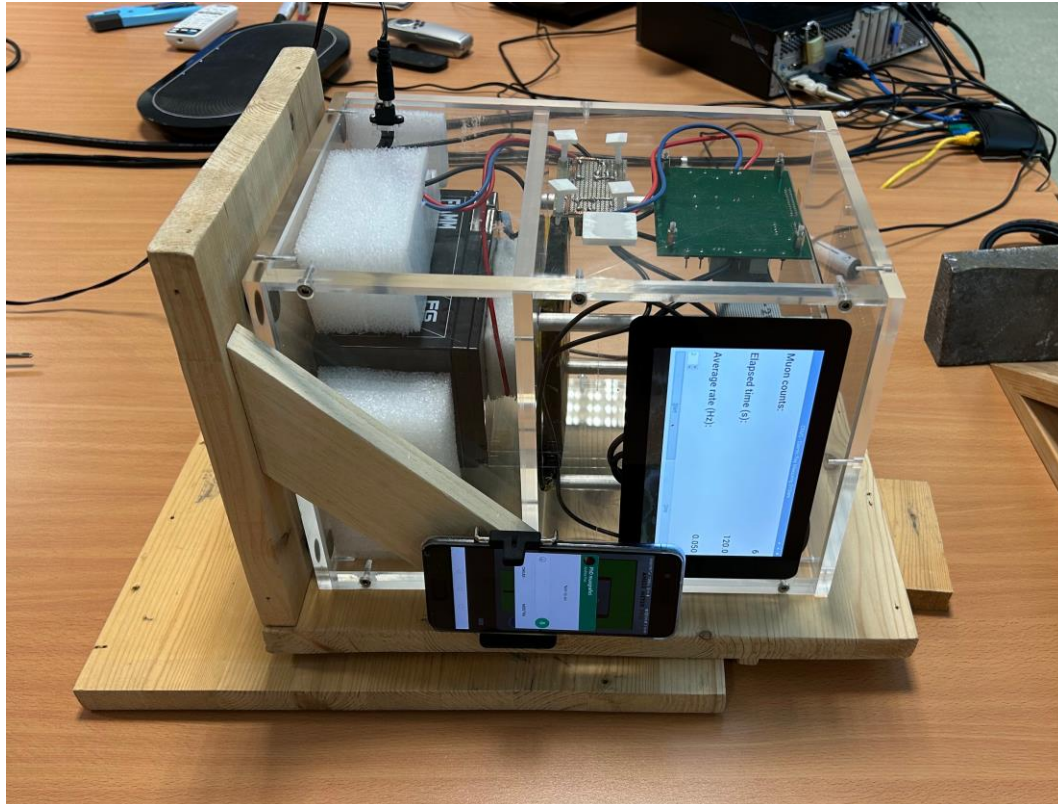
Our Group

- **We are students from Liceo “Amedeo di Savoia” in Pistoia.**
 - **Alessandro**
 - **Anna**
 - **Francesco**
 - **Giulio**
 - **Vanessa**

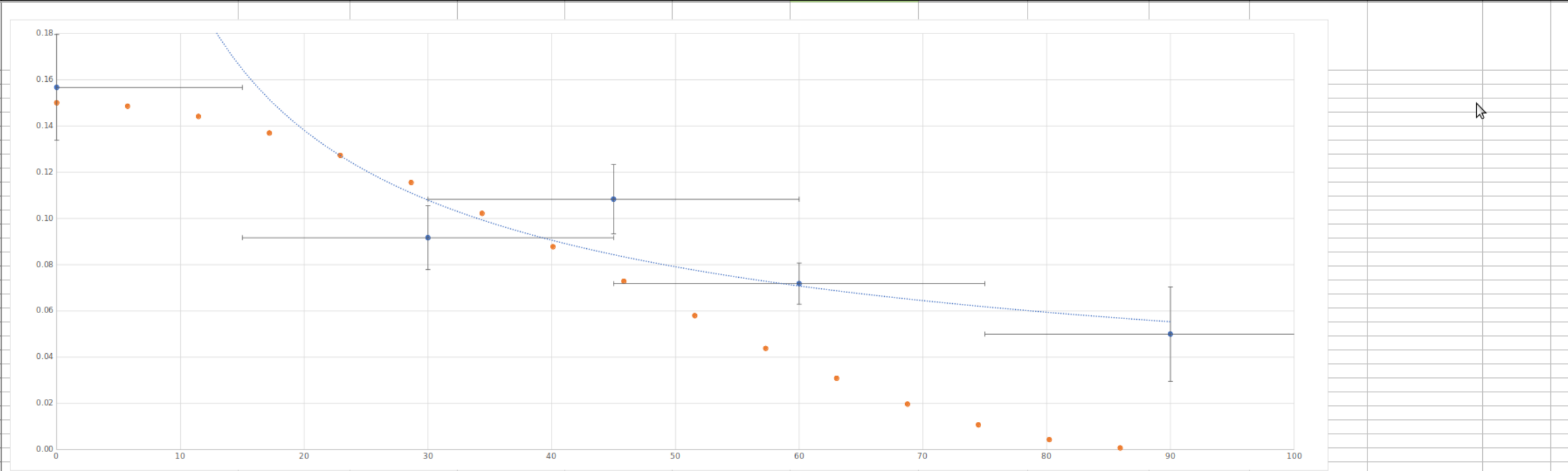


How we took the measures

- We are currently working in INFN section of Florence (Italy).
- The muon detector is made of two **plastic scintillators**.



Results



θ (°)	ε_{θ} (°)	$\varepsilon_{\theta}^{rel}$	ΔN	$\varepsilon_{\Delta N}$	$\varepsilon_{\Delta N}^{rel}$	Δt (s)	$\varepsilon_{\Delta T}$ (s)	$\varepsilon_{\Delta T}^{rel}$	F(θ)	$\varepsilon_{(F(\theta))}$	$\varepsilon_{(F(\theta))}^{rel}$
0	15		47	7	0.15	300	1.00E-05	3.3333333E-08	0.16	0.02	0.15
30	15	0.50	44	7	0.15	480	1.00E-05	2.0833333E-08	0.09	0.01	0.15
45	15	0.33	52	7	0.14	480	1.00E-05	2.0833333E-08	0.108	0.02	0.14
60	15	0.25	65	8	0.12	905	1.00E-05	1.1049724E-08	0.072	0.01	0.12
90	15	0.17	6	2	0.41	120	1.00E-05	8.3333333E-08	0.050	0.02	0.41