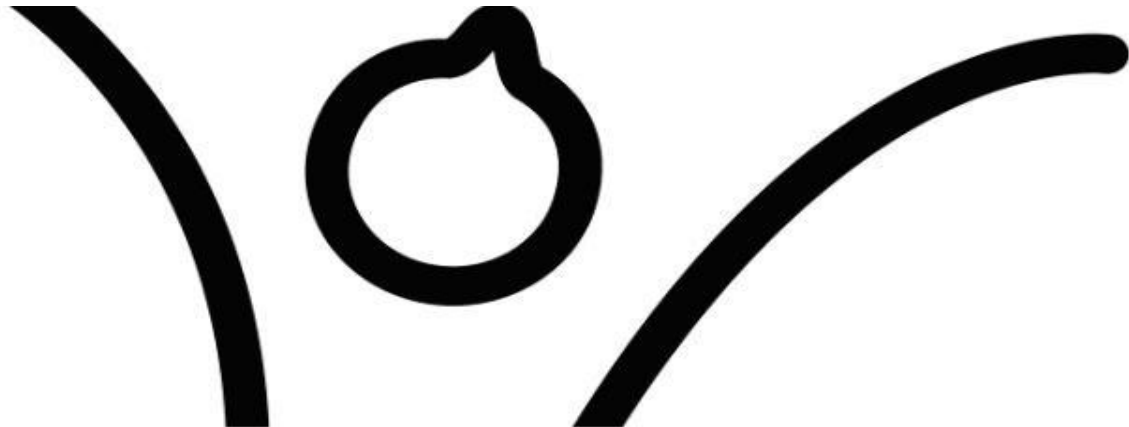
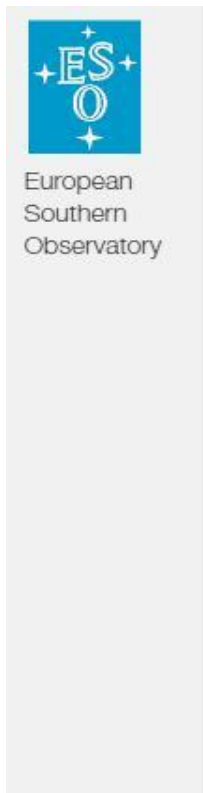


https://www.eso.org/public/announcements/ann19007/?utm_source=Facebook&utm_medium=social&utm_campaign=SocialSignIn



The winners of the Catch a Star 2018 Contest have been announced. Each winner will receive a mounted image featuring ESO telescopes in Chile, courtesy of ESO, such as the awe-inspiring [Whirling Southern Star Trails over ALMA](#). Additionally, the European Association for Astronomy Education is providing the top 2 winners and the new special category winner with the unique opportunity to hold a video conference with a professional astronomer.

The prizes were awarded as follows:

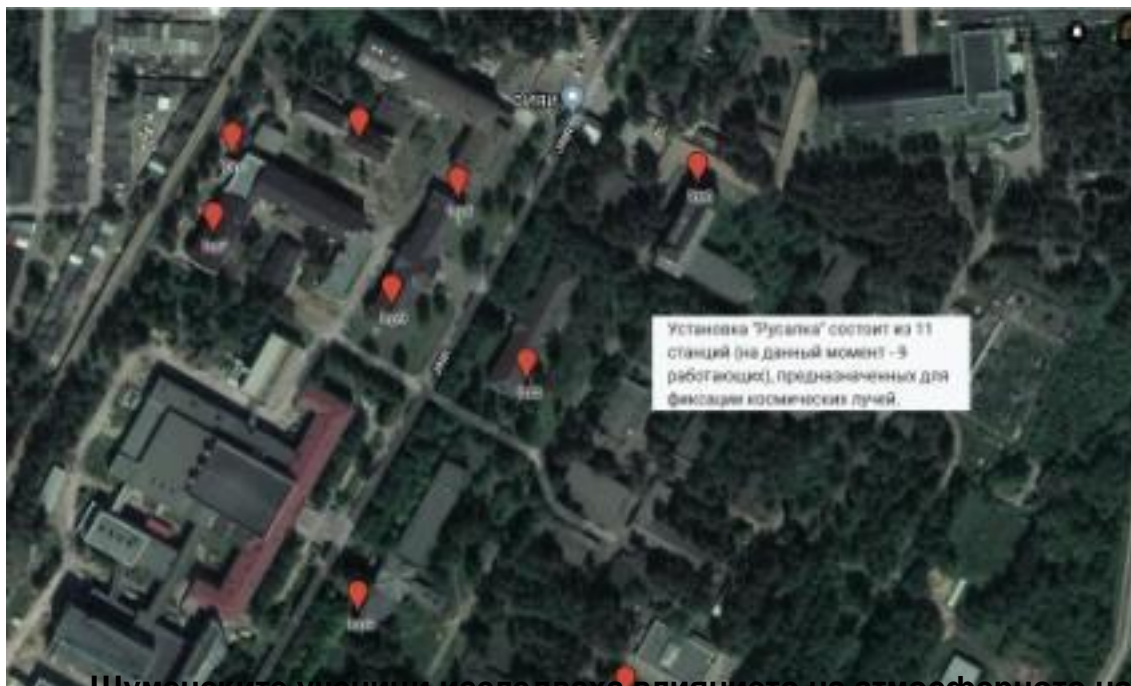
First prize: "Detecting the exoplanet HD189733b" by Carl-Fuhlrott-Gymnasium Wuppertal/Germany

Second prize: "Cosmic rays" by Specialised Language High School "N.Y. Vaptsarov", Shumen, Bulgaria

Third prize: "Low Cost Astrobiology Studies" by Colegio Huerta de la Cruz, Cádiz, Spain

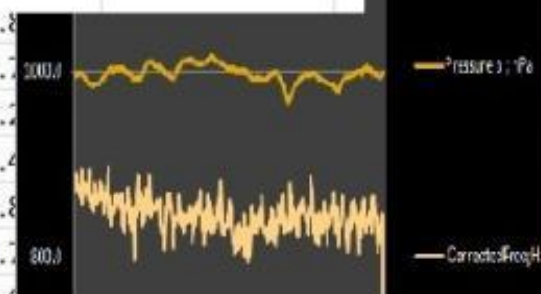
Fourth prize: "Calculations of the energy escaping from a black hole" by Evangelisches Gymnasium, Lippstadt, Germany

Екатерина Петкова, Мария Иванова и Нихат Енчев са ученици в единадесети клас на ПЕГ „Н. Й.



Шуменските ученици изследваха влиянието на атмосферното налягане върху вторични космични лъчи.

C	D	E	F	G	H	I
Frequency ;Hz	Frequency*100	Pressure p ; hPa	Δv ; %	Δp ; hPa	Individual.Coeff, %	CorrectedFreq;
0.871	871	997.3	3.1	0.0	0	
0.882	882	996.7	4.3	-0.6	0.12	88
0.889	889	996.6	5.1	-0.7	0.14	88
0.877	877	996.7	3.8	-0.6	0.12	
0.878	878	997.0	3.9	-0.3	0.06	Cor
0.870	870	997.2	3.0	-0.1	0.02	
0.865	865	997.5	3.1	0.2	0.05	
7.1	0.2	-0.2	0.04	845.7	0.2	
7.3				844.30		
I - st slope=	-0.203			II - nd slope=	-0.003	
I - st correl=	-0.645			II-nd correl=	-0.011	
0.876	876	994.5	3.7	-2.8		
0.885	885	993.6	4.6	-3.7		
0.888	888	991.1	5.0	-6.2		
0.885	885	989.9	4.6	-7.4		
0.882	882	988.5	4.3	-8.8		
0.881	881	986.6	4.2	-10.7		
0.877	877	985.7	3.5	-10.4		



Южноевропейската астрономическа обсерватория изпрати наградите в училището на

**Анета Маринова,
ПЕГ „ Н.Й. Вапцаров“, Шумен**

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