



**PiA<sup>®</sup>** Physik im Advent<sup>®</sup>  
Noch 24 Experimente bis Weihnachten

# PiA<sup>®</sup> – Physics in Advent 2024



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## What is PiA – Physics in Advent?

Physics in Advent is an Advent calendar of a special kind - a physical Advent calendar! During Advent, young researchers and anyone who enjoys it can solve 24 small simple experiments and physical puzzles and discover the joy of experimenting for themselves.

From 1 to 24 December, an experiment will be presented every day as a video to imitate. On the website the participants can answer the physical question raised in the experiment and watch the resolution of this question as a video. In addition to the fun of experimenting, many great prizes can be won.

Students from grades 5 to 10, i.e. age 11 to 18 years, class associations or even whole schools can take part. Younger or older pupils, parents, students, teachers and anyone interested in physics are cordially invited to take part.

Further information is available at:  
[www.physics-in-advent.org](http://www.physics-in-advent.org)



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## Review: PiA – Physics in Advent 2023

With **69.469 registered participants** from 72 countries worldwide, more than 1.197.590 visits to the website [www.physics-in-advent.org](http://www.physics-in-advent.org), more than 1.233.370 clicks on this year's PiA films on YouTube as well as about 101.834 clicks on Facebook and twitter, "PiA - Physics in Advent" 2023 was once again very successful and the response significantly higher than last year. The fraction of female participants was about 50%. With a **total of 2.532.794 registered visits**, a new record was set!

This year we were able to award more than 822 prizes (8 weekend prizes, 627 individual prizes, 144 class prizes, 44 school prizes) to the PiA participants, which we received as donations in kind or monetary donations. Among them were also visits to research institutions (DESY, FZ Jülich, PSI, KIT, HZDR). As a special prize a trip to Dallas to two NBA basketball games supported by Dirk Nowitzki as well as a trip to London with visits of the Harry Potter film studios was awarded. Furthermore, a jump in a vertical wind tunnel, a ride in a hot air balloon and a glider flight could be raffled off. It was also possible to find numerous technically oriented business enterprises that offered special tours of their companies to the best school classes. This supports the PiA-strategy of demonstrating to young people during their school years the diversity of the profession of physicist through concrete examples. Photos of the prize winners can be found on the website <http://www.physics-in-advent.org/winner2023> under "Winners 2023".

PiA<sup>®</sup> is a registered trademark in the EU

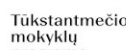
Physik im Advent<sup>®</sup> is a registered trademark in Germany

The website can be reached via the following domains:

[www.physik-im-advent.de](http://www.physik-im-advent.de) [www.physik-im-advent.org](http://www.physik-im-advent.org) [www.physics-in-advent.org](http://www.physics-in-advent.org) [www.pia.eu](http://www.pia.eu)



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## Participants statistics 2022

### Participants:

**69.469 participants**

(for comparison 2013: 14.000 / 2014: 20.000 / 2015: 23.427 /  
 2016: 26.174 / 2017: 31.242 / 2018: 39.572 /  
 2019: 43.466 / 2020: 61.792 / 2021: 66.949 /  
 2022: 70.065)

of which students:

63.818

of which teachers:

2.246

of which other adults:

3.405

### schools:

**1523 schools**

(for comparison 2014: 617 / 2015: 737 / 2016: 838, 2017: 932/  
 2018: 1217 / 2019: 1152 / 2020: 1406, 2021: 1453/  
 2022: 1794)

### Submitted solutions:

**601.348 solutions**

(for comparison 2014: 209.462, 2015: 253.262, 2016: 261.287,  
 2017: 314.556, 2018: 411.236, 2019: 432.055,  
 2020: 562.656, 2021: 570.502, 2022: 597.135)



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Deutsches  
 Patent- und Markenamt



Türkstanmeçio  
 mokyklų  
 programa



ZUKUNFT SCHAFFEN