

## SFN at AYPT 2019



Figure 1 Quirin Kirchhof, Charly Ahrendts, Miriam Mosbach

Every year, 17 Problems in physics are published by the committee of IYPT to be solved by highschool students. Each of them has to be prepared to be presented in so called fights. Participants have 12 minutes to present their achievements and another student has another 12 minutes to doubt those results.

In 2019 four students participated at the German Young Physicist Tournament in Bad Honnef. Charly, Jaro, Marianne and Bjarne took

part of the German competition. Charly was selected to participate as well at a workshop to build the German team at AYPT or IYPT. Charly was not selected to be part of the GYPT team in Austria, but got the opportunity to be part of the Team of Rosenheim. Rosenheim sends a separate team to the AYPT from time to time. She so participated as well in Austria.



Figure 2 Charly in her report. Opposition is GYPT

On Thursday April 25 Charly arrived in Leoben and met her teammates in the train from Rosenheim to Austria. Mirjam, Quirin, and Charly trained their Presentations with their Teamleader Johanna and Thomas, a Juror from Rosenheim. They arrived at Leoben, Austria midafternoon and moved in their hotel quickly, because the first item on the Schedule was the lottery of fights. There each team gets to know their fight partners. Team Germany Rosenheim had to fight in first stage against the GYPT, BRG APP Innsbruck and the team from

Vienna. Second round they had to fight against Poland, Iran and Gymnasium Freistadt. Third and last round the fight partners were Slovak YPT and Gymnasium Freistadt.

On Friday two of the three rounds were held. On the first one Team Rosenheim got the 2<sup>nd</sup> place in their room and 4<sup>th</sup> overall place. Everyone in the team was in a good mood due to this success.

Charly, Quirin and Miriam did an awesome job at their disciplines. Charly had a pretty tough opposition to stand, because the team from GYPT had her presentation beforehand and had a presentation ready to use for their opposition. She still got second best report in that round. Quirin did a quite good job as opponent to Innsbruck and Miriam had a very nice review as well.

After a nice and rich Lunch at Hotel Kongress the team headed back to the second fight that day. Since the report of Quirin had too few collected data this round wasn't as good as the first one. Also

Miriam and Charly couldn't save that with their opposition and review. The team fell to 11<sup>th</sup> overall place.

After 8 hours of fights, all young physicists went for a quick refreshing stop to the hotel and afterwards there was a BBQ Party in a school nearby. Jurors, teams, timekeepers and officials as well had the chance to socially interact. Some old friends were seen, and some new friends were made. But the team from Rosenheim, decided to go home early, so they can prepare for the next day. Back in the hotel, the team learned a lot about magnetism and did last minute formatting on Miriam's Presentation for the next day. It was a long night wake, to get possible opposition questions, and teaching magnetism in the middle of the night.



Figure 3 Late night presentation training



Figure 4 That moment when everyone gets enormous tired

The next day arrived after a short sleep, but nobody from Rosenheim slept in, so the fights could start as scheduled.

Quirin, again did a great job on opposition. His enemy was Slovak YPT, the winner Team of the tournament. According to that, he managed the team to struggle with their own results. Miriam after that held the best judged report of Rosenheim's team and Charly the best review.

After this last selective fight every place for the final was set. Iran, GYPT and Slovak YPT fought in the final. Rosenheim had no chance to get in there but could climb up in the top 10 again.

After three exhausting days in Austria, team Rosenheim left Leoben and is happy they had the opportunity to participate. They had a lot of fun and to end with Miriam's words: "Despite a tight schedule and certain strain during the fights, we had lots of fun. The international exchange and physics on a high level made the competition even more interesting."

