Amendments
to the
Botball 2022 Game Review
for the
European Region

Table of Contents

Preamble

This document contains amendments to the game rules specified in the 2022 Botball Game Review which are in effect for the European Botball region and the PRIA Open competition at the European Conference on Educational Robotics 2022.

Revision History

- Version 1.0, 25. 4. 2022: Initial version
- Verison 1.1, 26. 4. 2022: Add rule for Electrophoresis scoring

Documentation Score Calculation – Paper Rule

As with every ECER, students are highly encouraged to share their experiences and findings by submitting a paper. The paper score (between 0 and 1) will again factor into the Botball and PRIA Open scores by the following means:

Botball

$$AdaptedDocScore = \frac{1}{2} * DocScore + \frac{1}{2} * PaperScore$$

The calculation of the overall score remains as defined in the official game document, with the only difference that the adapted documentation score (as defined above) is used instead of the original documentation score.

PRIA Open

$$PriaOpenOverall = DE + Seeding + \frac{1}{2} * PaperScore$$

Scoring Rule Additions

Electrophoresis Scoring Rule

For scoring of the ring (Prepared mRNA Sample) the following conditions both must be met:
1. The ring must go through the post.
2. The inside of a ring is delimited by two circular planes. The rings score on the Electrophoresis posts, if both of those planes are beyond the plane defined by the open end of the post.

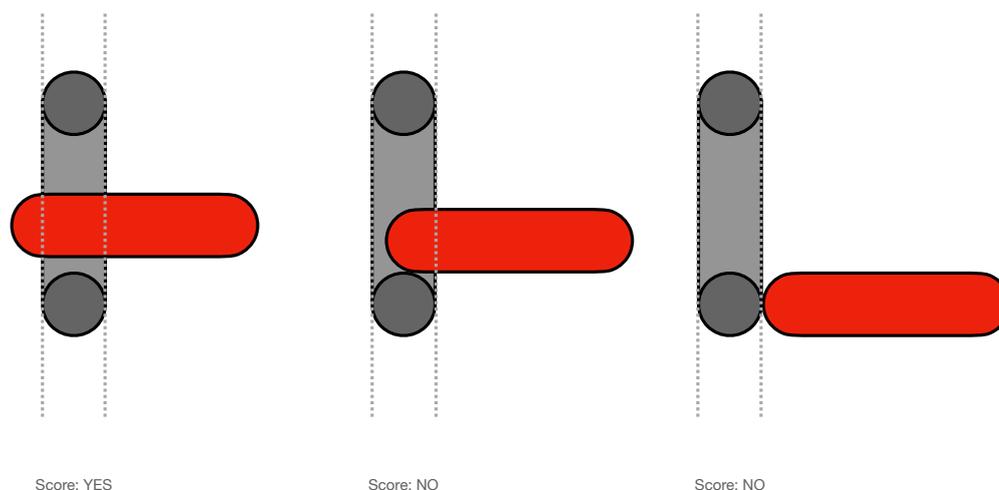Figure 1 illustrates the electrophoresis scoring rule.

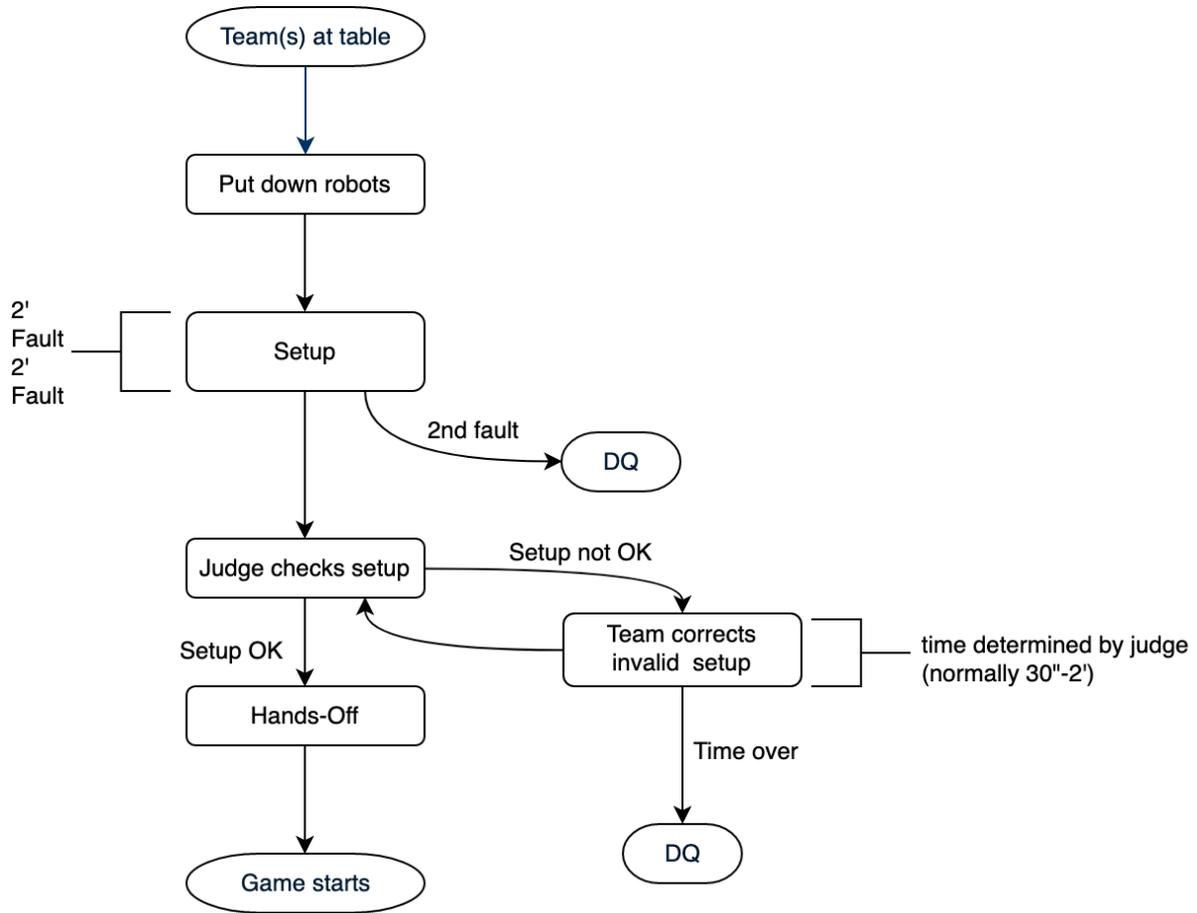*Figure 1 Electrophoresis scoring examples*

Open Practice

During scheduled open practice (during which the game table is exclusively reserved for the current team), teams are allowed to bring their laptops, tablets and likewise devices to the tables and use them for purposes as defined in the second paragraph of the "Game Play -> Practice" section if the official game document.
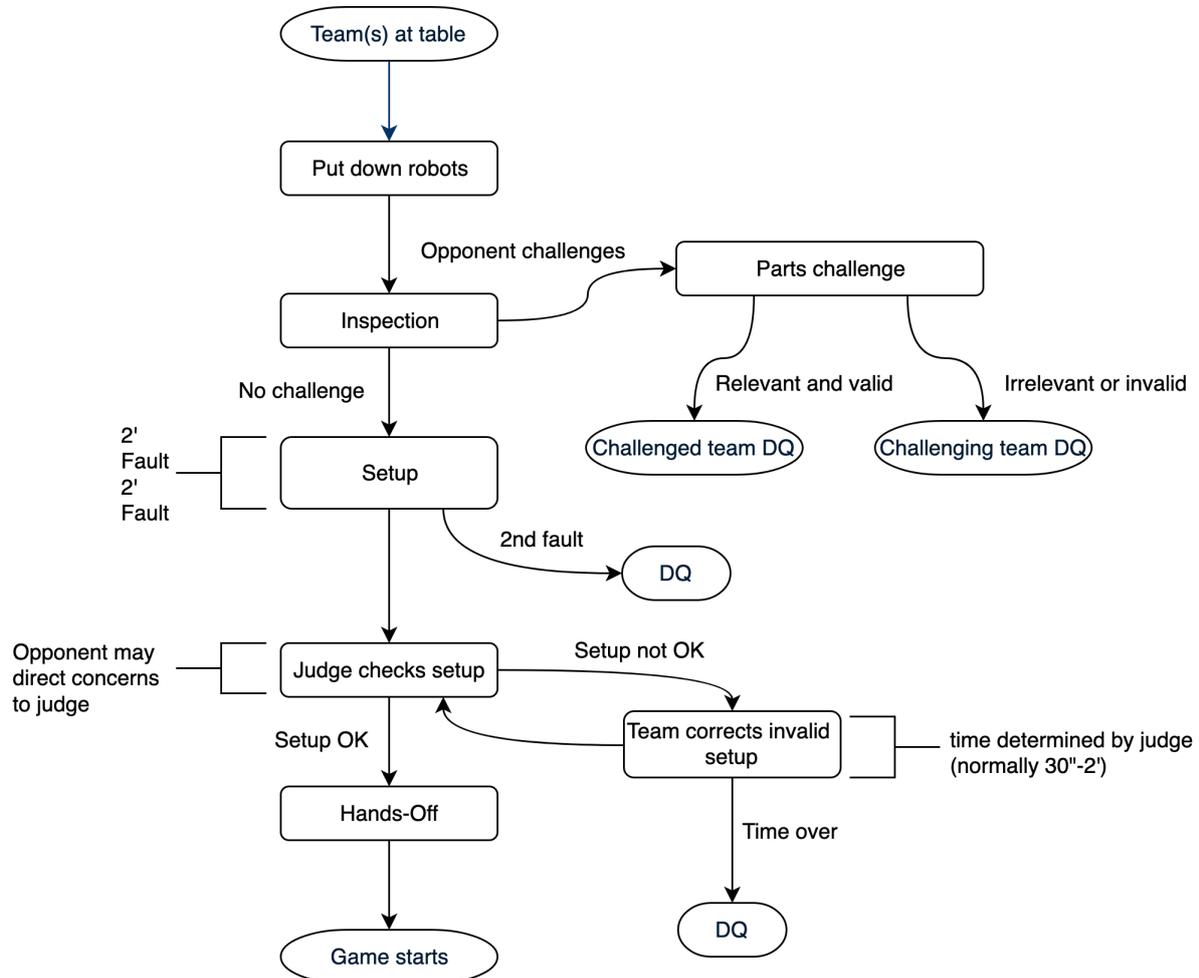
Tournament Round Procedure

In order to clarify the procedure of a team's run at the Gametable, the following illustrations show the process and should also give all relevant information. Please note that the official game review is not very clear regarding the exact order and timing of the different phases and steps. The procedure presented here is an interpretation and things can and are likely to be handled slightly different at e.g. GCER or other regional competitions.

Seedings

Double Elimination

Team Misconduct – Spirit of Botball

All staff involved in organizing ECER and the European Botball region are giving their best to provide a fair and objective experience to each and every participant and team so that they can have an interesting, educational and exciting competition and show their achievements in building and programming their robots. They furthermore treat every participant with the same respect and take any issues raised seriously.

The same is also expected of all participants. Any form of misbehavior and disrespect can and will not be tolerated. While we do understand that teams put a lot of effort into the competition and discussions can sometimes get emotional, there are limits where we have to become active in order to deescalate a situation. In order to facilitate a clear pattern of action upon misconduct, ECER 2022 will deploy a yellow/red card penalty system.

For any serious misconduct identified by the head judge's, he/she will issue a yellow card to clearly indicate that the team (as represented by its members) has been cautioned. Upon receiving a second caution during the tournament, the team will receive a red card and will consequently be immediately disqualified from the whole competition and all possible awards. Note that those penalties (yellow and red cards) are one of the last resorts for the judges and will not be used blithely.

Behaviors which can be penalized with a caution (yellow/red card) include, but are not limited to
- insults
- and disrespect against participants, advisors, judges and anyone else involved in the event.
- failing to accept a final head judge ruling. Make sure that the head judge is aware of your point of view for consideration in the ruling but accept a final ruling when made.
- manipulation or malicious interference in other team's robots and tournament rounds.

It is also at the head judge's discretion to immediately issue a red card for more serious misconduct such as physical violence, willful destruction, etc.