

The main goal of this bachelor thesis was to create a structured description of experiments installed in the iQpark science centre in Liberec. The target was to choose experiments usable especially on high schools. I described 84 interactive experiments which were categorized in six main topics and 23 subtopics. The description of each experiment is completed by photographs, proposals for discussion with students and an original description for students by iQpark. Short videos were made for selected experiments, too. A new website was made for this survey of experiments. The website is available for free. The database is primarily dedicated to high school physics teachers who plane a trip with students to the iQpark science centre. Reader becomes also familiar with the concept of the science centres and their progress in the Czech Republic.