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## Industrial Problem Solving Workshops

*Tuesday 4 June 2019 15:45 (30 minutes)*

The main goals of an Industrial Problem Solving Workshop (IPSW) are to build connections between researchers in industry, non-profit organizations, and academia. Canada's mathematical sciences institutes have been organizing IPSWs for over twenty years. During an IPSW, non-academic organizations present problems related to their interests, and academic participants will break into teams to explore solutions to these problems. Typical problems come from a variety of subject areas, but all are designed to be approachable by students and postdocs with backgrounds in pure mathematics, modelling, scientific computing, computer science, or data analysis. Each problem group is led by university faculty members with expertise relevant to the technical challenge at hand, but participants with a wide range of interests and expertise are welcome. Over the course of the five-day workshop, problem groups work collaboratively to explore possible solution strategies to the technical challenges, propose longer-term research directions, and make connections to a larger network of companies and academic researchers with similar interests. In this talk, I will describe both the previous and upcoming IPSWs organized by AARMS (the Atlantic Association for Research in the Mathematical Sciences), and describe how students and faculty with a physics background can participate. (For more details see [aarms.math.ca/ipsw2019/](http://aarms.math.ca/ipsw2019/).)

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