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**Heinz Bauschke\*** ([heinz.bauschke@ubc.ca](mailto:heinz.bauschke@ubc.ca)), Mathematics, UBC Okanagan, Kelowna, BC V1V 1V7, Canada. *8 Queens, Sudoku, and Projection Methods*. Preliminary report.

I will report on recent progress in modeling satisfiability problems and their solution by projection methods. Surprisingly, these methods are able to solve discrete problems such as the 8 Queens Problem from Chess, and Sudoku.

Based on joint works with Jason Schaad (UBC Okanagan), and with Patrick Combettes (Paris VI) and Russell Luke (Delaware). (Received August 15, 2008)