1043-90-67   **Heinz Bauschke*** (`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)