SU(2)-representations of fundamental groups of 3-manifolds

 $\label{thm:continuous} Raphael\ Zentner \\ Universit\"{a}t\ Regensburg$ raphael.zentner@mathematik.uni-regensburg.de

We will review some known facts about SU(2)-representations of fundamental groups of 3-manifolds, and explain how tools from gauge theory permit conclusions of existence. Part of this will be about joined work with Steven Sivek, and part about joined work with Tye Lidman and Juanita Pinzon Caicedo.