

AN INTRODUCTION TO SEIBERG-WITTEN EQUATIONS

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A typical example of nonlinear PDE with compact solution space is the Seiberg-Witten equations on close 4-manifolds. We will explain:

- (1) the compactness of the moduli spaces of solutions,
- (2) how to define invariants using Ruan's virtual neighborhood and twisted framings, and
- (3) some examples.