1067-68-1135   **Yasushige Watase*** (`ywatase@ss.iij4u.or.jp`), 4-17-1 Wakato, Nagano, Nagano 380-8553, Japan, **Noboru Endo** (`endon@gifu-nct.ac.jp`), Kamimakuwa 2236-2, Motosu, Gifu , Japan, and **Yasunari Shidama** (`shidama@shinshu-u.ac.jp`), 4-17-1 Wakato, Nagano, Nagano 380-8553, Japan. *Recent achievement of Codification on Real Analysis in Mizar.*

This talk is to introduce recent achievement of codification on real analysis and how it looks like. Area of the real analysis has been formalized in Mizar since early 1990s. Measure Theory formalized from1991 to 1996 due to sequential work of Jozef Bialas. Integral Theory has been formalized by Prof. Shidama's group at Shinshu University in Japan. Their work covered basic part of Integral Theory included Egoroff's theorem, Fatou's lemma and the Lebesgues's convergence thorem. Last two years Lebesgues space, the so-called Lp space, was formalized which included formal proof of Minkowski's inequality and Holder's inequality. (Received September 21, 2010)

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