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Xu Xian min* (xmxu@mail.zjxu.edu.cn), Mathematics Institute, Jiaying University, 314001 Jiaying, Zhejiang, Peoples Rep of China, **Hu Jun yun** (jyhu@mail.zjxu.edu.cn), Mathematics Institute, Jiaying University, Jiaying, Zhejiang 314001, **Sun shun hua** (shsun@mail.zjxu.edu.cn), Mathematics Institute, Jiaying University, Jiaying, Zhejiang 314001, and **Guo yu kun** (kyguo@fudan.edu.cn), mathematics department, Fudan University, 200433 Shanghai, Peoples Rep of China. *Toeplitz algebras on reproducing $C[z_1, \dots, z_d]$ -modules and its automorphism group.*

This paper deals mainly with some basic structure of the analytic Hilbert modules endowed with unitarity invariant reproducing kernel, and operator theory on these Hilbert modules, In particular, Toeplitz C^* -algebra and associated index formula, and its automorphism group are studied. (Received August 25, 2004)