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A real valued unital weakly closed  $*$ -algebra  $R$  of bounded operators in Hilbert space is called a real  $W^*$ -algebra, if  $R \cap iR = \{0\}$ . A real  $W^*$ -algebra  $R$  is called a real factor of type  $III_\lambda$ ,  $0 \leq \lambda \leq 1$ , if its enveloping  $W^*$ -algebra  $U(R) = R + iR$  is the factor of type  $III_\lambda$ .

We consider the real flows of weights appearing from continuous decomposition of real factors of type  $III$ . Our main result is that two approximately finite dimensional real factors (AFD real factors) of type  $III_0$  are isomorphic if and only if its associated real flows of weights are conjugated. (Received September 21, 2006)