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***The multiplier algebra on the product BMO space and Toeplitz operators on  $H^1(D^N)$***

ABSTRACT. The product space of functions of bounded mean oscillation, denoted by  $BMO(T^N)$ , which is naturally associated to the complex Hardy space  $H^1$  on the polydisk  $D^N$ , has been much studied in recent years, for example in the work of Ferguson, Lacey, Petermichl, Pipher, Sadosky, Tao, Thiele, Treil and Wick. In this talk, we will generalize a classical result of D. Stegenga to the product setting and characterise the multiplier algebra of  $BMO(T^N)$ . We will also discuss Toeplitz operators on the complex Hardy space  $H^1(D^N)$ . This is joint work with B. Sehba (Glasgow).