1176-94-108 **Christopher Battarbee*** (cb2036@york.ac.uk), Department of Computer Science, Deramore Lane, Heslington, York, YO10 5GH, United Kingdom, and **Delaram Kahrobaei**, **Siamak F. Shahandashti** and **Dylan Tailor**. *On the efficiency of a general attack against the MOBS cryptosystem.*

All instances of the semidirect key exchange protocol, a generalisation of the famous Diffie-Hellman key exchange protocol, are subject to the so-called "telescoping equality"; in some cases, this equality has been used to construct an attack. However, in some cases the value that aids recovery of the secret key is not necessarily uniquely admissible. In this report we present computational evidence suggesting that an instance of the scheme called 'MOBS (Matrices Over Bitstrings)' is an example of a scheme where the telescoping equality has too many solutions to be a practically viable means to conduct an attack. (Received January 17, 2022)