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Decidedly undecidable results in operator algebras

It is difficult to recall that it has only been 6 years (essentially the last time the CMS meeting was held at the Chelsea Hotel!) since the start of what I would call the era of undecidability in the model theory of operator algebras. These results have followed from the breakthrough results in quantum complexity that goes by the call signal $MIP^* = RE$. I will survey some of the highlights of the past few years, look at the role of embedding problems and say something about current open problems in the area.