

CLASSICAL AND QUANTUM GRAVITY IN TWO
DIMENSIONS – “VIENNA STYLE”

W. Kummer

Institut für Theoretische Physik,
Technische Universität Wien
(*Wiedner Hauptstr. 8-10, A-1040 Wien, Austria;*
e-mail: wkummer@tph.tuwien.ac.at)

Starting from the work of the author in 1990 with different collaborators, essential progress in $2d$ gravity theories has been made. Now all such theories (and not only certain special models) can be treated at the classical as well as at the quantum level. New physical insights have been obtained, as e.g. the “virtual black hole”. The formalism developed in this context recently also finds increasing interest in mathematical physics.