

Beyond the generalized Douglas–Weyl spaces

By NASRIN SADEGHZADEH (Qom) and NAJMEH SAJJADI MOGHADAM (Qom)

Abstract. This paper gives new insights into the class of *generalized Douglas–Weyl (GDW-)* metrics. This projective invariant class of Finsler metrics contains some well-known Finsler metrics such as Douglas, Weyl and R -quadratic metrics. Here, some new subclasses of GDW -metrics are constructed and considered as the explicit Finsler metrics. Many illustrative and interesting examples are presented.

NASRIN SADEGHZADEH &
NAJMEH SAJJADI MOGHADAM
DEPARTMENT OF MATHEMATICS
UNIVERSITY OF QOM
ALGHADIR BLD
QOM
IRAN

Mathematics Subject Classification: 53B40, 53C60.

Key words and phrases: Douglas metrics, $\bar{D}$ -metrics, GDW-metrics, R -quadratic Finsler metrics, PR -quadratic Finsler metrics.