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New exact solutions to the Einstein field equations

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We present new classes of exact solutions to the five dimensional Einstein gravity with cosmological constant, coupled to the Maxwell and dilation fields. The theory has two coupling constants for dilation-Maxwell and dilation-cosmological constant terms. The solutions are non-stationary and moreover almost regular everywhere for non-zero coupling constants. The cosmological constant depends on the dilation coupling constant and can take positive, zero or negative values.

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