1135-VN-1160 **Alrazi M Abdeljabbar*** (aabdeljabbar@pi.ac.ae), P.O Box 2533, Abu Dhabi, United Arab Emirates. *New double Wronskian solutions for a generalized (2+1)-dimensional Boussinesq system with variable coefficients.*

New generalized (2+1)-dimensional Boussinesq system with variable coefficients has been introduced,

$$u_t + \alpha_1(t)u_{xy} + \alpha_2(t)(uw)_x + \alpha_3(t)v_x = 0,$$
$$v_t + \beta_1(t)(wv_x + 2vu_y + uv_y) + \beta_2(t)(u_xw_y - (u_y)^2) + \beta_3(t)v_{xy} + \beta_4(t)u_{xyy} = 0,$$
where $w_x = u_y$.

A double Wronskian solutions has been formulated under certain constraints on the variable coefficients. Hirota differential operator and its properties have been employed to transform the system into a bilinear form.

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