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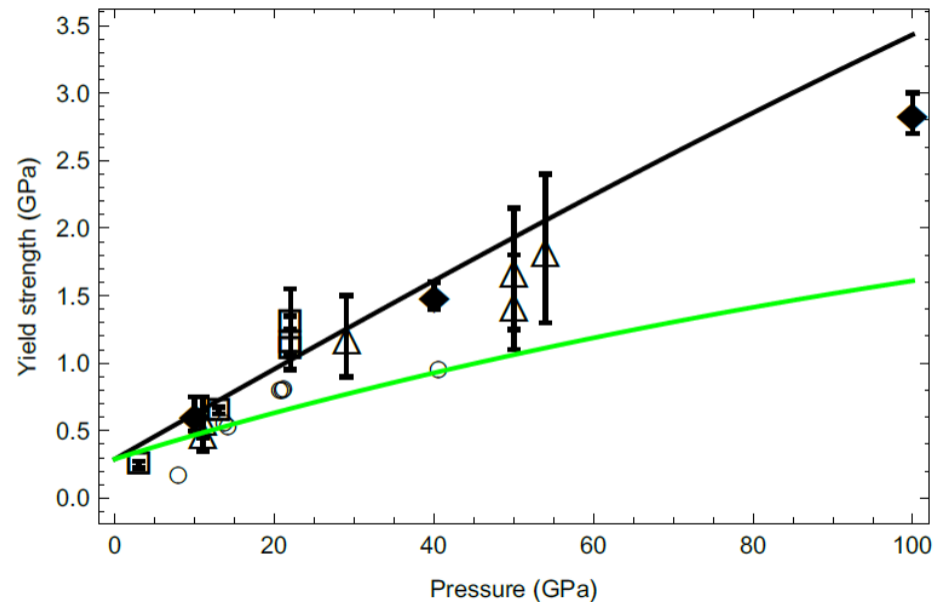


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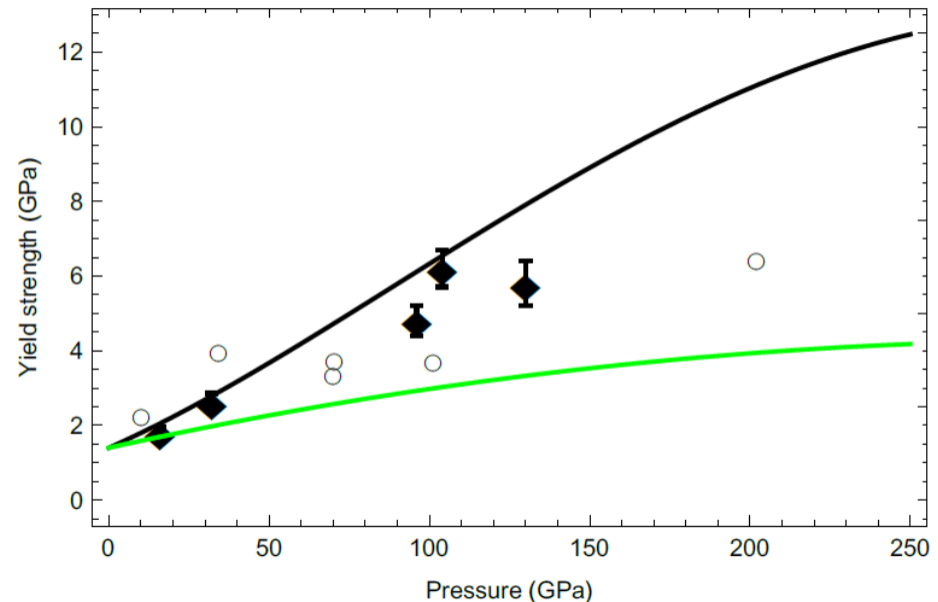
# IC t22\_nonlinearnyg Highlight: Linear vs. quadratic yield strength-shear modulus scaling in the case of dynamic compression: shock loading of Al and W

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Al, principal Hugoniot



W, principal Hugoniot



**Figs. 1,2.** Comparison of the linear ( $Y/Y_0 = G/G_0$ , green lines) and quadratic ( $Y/Y_0 = (G/G_0)^2$ , black lines) yield strength-shear modulus scaling vs. experimental data (different symbols) in the cases of the shock compression of Al (left) and W (right). It is clearly seen that the quadratic scaling provides a much better description of the data than the linear one.