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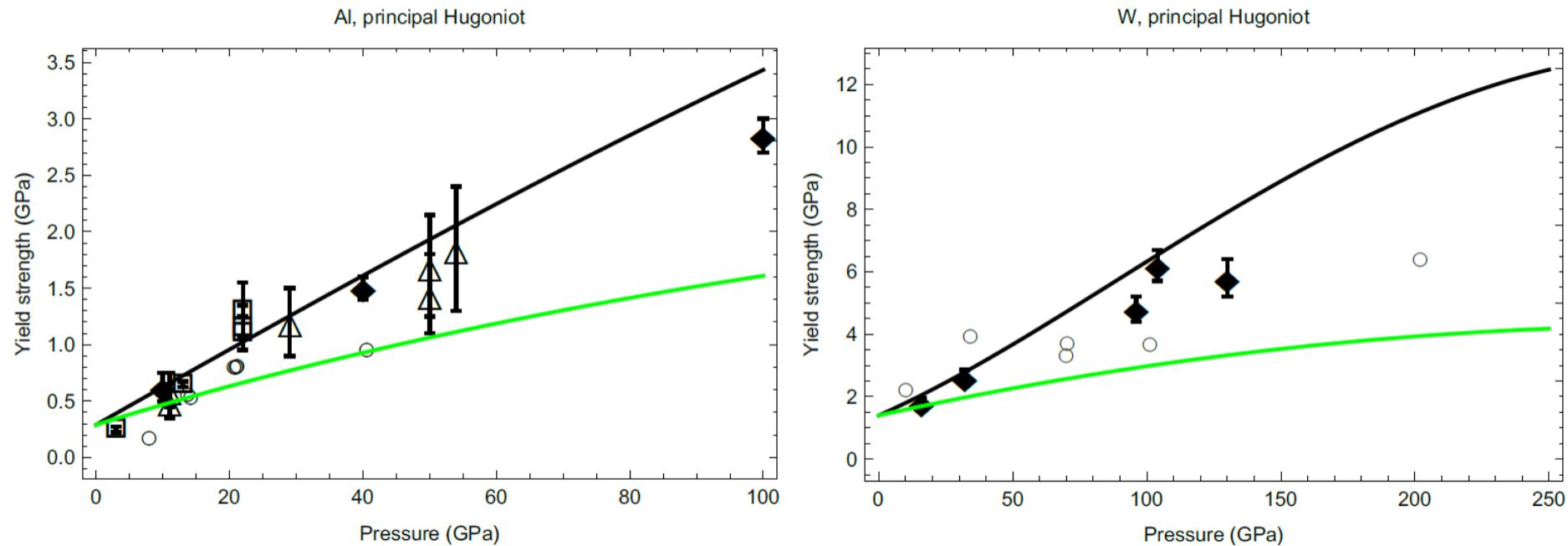
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IC t22_nonlinearng Highlight: Linear vs. quadratic yield strength-shear modulus scaling in the case of dynamic compression: shock loading of Al and W

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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.