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$$\frac{d}{dt} \int_{\Omega} |\nabla u|^2 + \int_{\Omega} u^2 \leq \int_{\Omega} |\nabla u|^2 + \int_{\Omega} u^2$$

$$(\|\nabla u\|_2^2 + \|u\|_2^2);$$
We Get  $\frac{d}{dt} \int_{\Omega} |\nabla u|^2 + \int_{\Omega} u^2 \leq \int_{\Omega} |\nabla u|^2 + \int_{\Omega} u^2$ : Integrating Over  $(0; t)$ , We Obtain (5). The Last Energy Estimate (6) Can Be Proved Similarly By Choosing  $V = U$  And Left ... Apr 2th, 2024.

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