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The status of laser ionization schemes and the scope for improving efficiencies

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The addition of 3, Nd:YAG pumped, titanium sapphire (Ti:Sa) lasers to the ISOLDE resonance ionization laser ion source (RILIS) presents an ideal opportunity for a full evaluation of the ionization schemes currently used at RILIS. The purpose of this is to determine if there are any possibilities for utilising this broadening of the available wavelength range to reach autoionizing states and more generally increase the efficiency of the laser ion source. The general status of ionisation schemes will be discussed, along with methods for scheme development.

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