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Nuclear structures and beta-decay schemes for the Sb, Te, and I nuclides beyond $N = 82$

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The experimental results are exhibited based on the beta-decay schemes for the Sb, Te, and I nuclides beyond $N = 82$. We provide for the first time the internal level structures of ^{140}Te , ^{140}I , and ^{142}I , as showing the beta-decay lifetime measurements of the corresponding decay processes. The observed level structures and decay schemes will be discussed briefly systematically with the help of the shell model calculations. Finally, we outline perspectives for the future experiments aiming at B-RIKEN campaign.

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