

Publications des résultats d'expériences de spectroscopie Seastar 1-3  
(Campagnes RIKEN RIBF de 2014, 2015 et 2017)Seastar-1 en 2014: S<sup>\*14</sup>; Seastar-3 en 2015 : S<sup>\*15</sup>; Seastar-3 en 2017 : S<sup>\*17</sup>

## (p,pN) cross sections

- [p3p] S<sup>\*15-17</sup> A. Frotscher *et al.*, Phys. Rev. Lett. **125**, 012501 (2020). doi: 10.1103/PhysRevLett.125.012501  
 [ppN] S<sup>\*15-17</sup> N. Paul *et al.*, Phys.Rev.Lett. **122**, 162503 (2019). doi: 10.1103/PhysRevLett.122.162503  
 [Nipp] S<sup>\*14</sup> M.L. Cortes *et al.*, Phys. Rev. C **97**, 044315 (2018). doi : 10.1103/PhysRevC.97.044315

## Around Z=20

- [47,49Cl] B.D. Linh *et al.*, Phys.Rev.C **104**, 044331 (2021) doi:10.1103/PhysRevC.104.044331  
 [50Ar] S<sup>\*17</sup> M. L. Cortés *et al.*, Phys. Rev. C **102**, 064320 (2020). doi: 10.1103/PhysRevC.102.064320  
 [51Ar] S<sup>\*17</sup> M.M. Juhasz *et al.*, Phys.Lett. B **814**, 136108 (2021). doi: 10.1016/j.physletb.2021.136108  
 [52Ar] S<sup>\*17</sup> H. N. Liu *et al.*, Phys. Rev. Lett. **122**, 072502 (2019) doi: 10.1103/PhysRevLett.122.072502  
 [51,53K] S<sup>\*17</sup> Y.L. Sun *et al.*, Phys. Lett. B **802**, 135215 (2020) doi: 10.1016/j.physletb.2020.135215  
 [55K;55,57Ca] S<sup>\*17</sup> T. Koiwai *et al.*, Phys.Lett. B **827**, 136953 (2022). doi: 10.1016/j.physletb.2022.136953  
 [54Ca\_2] S<sup>\*17</sup> F. Browne *et al.*, Phys. Rev. Lett. **126**, 252501 (2019). doi:10.1103/PhysRevLett.126.252501  
 [54Ca\_1] S<sup>\*17</sup> S. Chen *et al.*, Phys. Rev. Lett. **123**, 142501 (2019). doi:10.1103/PhysRevLett.123.142501  
 [62Ti] S<sup>\*17</sup> M. L Cortès *et al.*, Phys. Lett. B **800**, 135071 (2020) doi: 10.1016/j.physletb.2019.135071  
 [63V] S<sup>\*17</sup> M.M. Juhasz *et al.*, Phys. Rev. C **103**, 064308 (2021). doi: 10.1103/PhysRevC.103.064308

## Around Z=28

- [72Fe,66Cr] S<sup>\*14</sup> C. Santamaria *et al.*, Phys. Rev. Lett. **115**, 192501 (2015). doi: 10.1103/PhysRevLett.115.192501  
 [78Ni] S<sup>\*14</sup> R. Taniuchi *et al.*, Nature (London) **569**, 53 (2019). doi: 10.1038/s41586-019-1155-x  
 [76Ni] S<sup>\*14</sup> Z. Elekes *et al.*, Phys. Rev. C **99**, 014312 (2019) doi: 10.1103/PhysRevC.99.014312  
 [79Cu] S<sup>\*14</sup> L. Olivier *et al.*, Phys. Rev. Lett. **119**, 192501 (2017). doi: 10.1103/PhysRevLett.119.192501  
 [79CuB] S<sup>\*14</sup> L. Olivier *et al.*, *Erratum*. Phys.Rev.Lett. **121**, 099902 (E) (2018). doi: 10.1103/PhysRevLett.121.099902  
 [67Mn] S<sup>\*14</sup> X.Y. Liu *et al.*, Phys. Lett. B **784**, 392 (2018) doi: 10.1016/j.physletb.2018.06.067  
 [84Zn] S<sup>\*15</sup> C. Shand *et al.*, Phys. Lett. B **773**, 492 (2017). doi: 10.1016/j.physletb.2017.09.001  
 [69,71,73Co] S<sup>\*14</sup> T. Lokotko, *et al.*, Phys. Rev. C **101**, 034314 (2020). doi:10.1103/PhysRevLett.101.034314

## Around Z = 36, 40

- [88Ge] S<sup>\*15</sup> M. Lettmann *et al.*, Phys. Rev. C **96**, 011301 (2017). doi: 10.1103/PhysRevC.96.011301  
 [92,94Se] S<sup>\*15</sup> C. Lizarazo *et al.*, Phys. Rev. Lett. **124**, 222501 (2020) doi:10.1103/PhysRevLett.124.222501  
 [94Se] S<sup>\*15</sup> S. Chen *et al.*, Phys. Rev. C **95**, 041302(R) (2017). doi: 10.1103/PhysRevC.95.041302  
 [94-96Kr] S<sup>\*15</sup> R.-B. Gerst *et al.* Phys. Rev. C **105**, 024302 (2022). doi : 10.1103/PhysRevC.105.024302  
 [100Kr] S<sup>\*15</sup> F. Flavigny *et al.*, Phys. Rev. Lett. **118**, 242501 (2017). doi: 10.1103/PhysRevLett.118.242501  
 [110Zr] S<sup>\*15</sup> N. Paul *et al.*, Phys. Rev. Lett. **118**, 032501 (2017). doi: 10.1103/PhysRevLett.118.032501

[78Ni] Nature (London) **569**, 53 (2019). cf Fait marquant IRFU /DRF  
 Le noyau exotique de 78Ni rejoint le club fermé des noyaux doublement magiques  
[http://irfu.cea.fr/Phocea/Vie\\_des\\_labos/Ast/ast.php?t=fait\\_marquant&id\\_ast=4576](http://irfu.cea.fr/Phocea/Vie_des_labos/Ast/ast.php?t=fait_marquant&id_ast=4576)  
 DRF Noyau de nickel 78 : exotique et doublement magique  
<http://www.cea.fr/drf/Pages/Actualites/En-direct-des-labos/2019/noyau-de-nickel--exotique-et-doublement-magique-.aspx>

Résultats des campagnes RIKEN RIBF Samurai 18 (2014) et Samurai 21 (2015)

SAMURAI 21 - 2015

[\[28O\]](#) *Discovery of 28O*

Y. Kondo *et al.* (SAMURAI21 collaboration), *in preparation* (2022).

[\[28F\]](#) *Extending the Southern Shore of the Island of Inversion to 28F*

A. Revel *et al.* (SAMURAI21 collaboration), *Phys. Rev. Lett.* **124**, 152502 (2020). doi: 10.1103/PhysRevLett.124.152502

[\[29Ne\]](#) *Border of the island of inversion: Unbound states in <sup>29</sup>Ne*,

M. Holl *et al.* (SAMURAI21 collaboration), *Phys. Rev. C* **105**, 034301 (2022). doi: 10.1103/PhysRevC.105.034301

SAMURAI 18 - 2014

[\[17B\]](#) *Quasifree Neutron Knockout Reaction Reveals a Small s-Orbital Component in the Borromean Nucleus <sup>17</sup>B*

Z.H.Yang *et al.*, *Phys.Rev.Lett.* **126**, 082501 (2021). doi: 10.1103/PhysRevLett.126.082501

[\[11Li\]](#) *Surface Localization of the Dineutron in <sup>11</sup>Li*

Y. Kubota *et al.*, *Phys.Rev.Lett.* **125**, 252501 (2020). doi: 10.1103/PhysRevLett.125.252501

[\[13Be\]](#) *Structure of <sup>13</sup>Be probed via quasi-free scattering*

A. Corsi *et al.*, *Phys.Lett. B* **797**, 134843 (2019). doi: 10.1016/j.physletb.2019.134843