

## TAVOLA DEI NUCLEI ATOMICI isobari

configurazione dei livelli nucleari degli isobari con **A = 90**

| $\frac{E_c(\text{MeV})}{E_s(\text{MeV})}$ | Sa                             | $\frac{m_c}{m_s}$           | n   | 1   | 2   | 3    | 4    | 5   | 6   | 7   | $\frac{E_{\beta np}(\text{eV})}{\beta^- T_{1/2}}$ |
|---|--------------------------------|-----------------------------|-----|-----|-----|------|------|-----|-----|-----|---|
| $\frac{729.534}{-}$                       | Ge <sup>90</sup> <sub>32</sub> | $\frac{89.96978}{-}$        | 32n | 2+0 | 2+3 | 0+9  | 1+8  | 1+1 | 0+4 | 0+1 | $\frac{10.136\text{M}}{p\beta^- >635\text{ns}}$   |
| $\frac{742.110}{742.05}$                  | As <sup>90</sup> <sub>33</sub> | $\frac{89.95544}{89.95550}$ | 33n | 2+0 | 4+2 | 0+9  | 1+9  | 1+1 | 0+3 | 1+0 | $\frac{14.60\text{M}}{\beta^- >300\text{ns}}$     |
| $\frac{755.379}{755.75}$                  | Se <sup>90</sup> <sub>34</sub> | $\frac{89.94035}{89.93996}$ | 34n | 2+0 | 8+0 | 2+8  | 0+11 | 0+1 | 0+1 | 0+1 | $\frac{8.10\text{M}}{\beta^- >300\text{ns}}$      |
| $\frac{764.067}{763.65}$                  | Br <sup>90</sup> <sub>35</sub> | $\frac{89.93019}{89.93063}$ | 35n | 2+0 | 8+0 | 2+8  | 1+11 | 1+0 | 1+1 | 0+0 | $\frac{10.959\text{M}}{\beta^- 1.91\text{s}}$     |
| $\frac{773.531}{773.22}$                  | Kr <sup>90</sup> <sub>36</sub> | $\frac{89.91919}{89.91952}$ | 36n | 2+0 | 8+0 | 8+5  | 0+12 | 0+1 | 0+0 | 0+0 | $\frac{4.406\text{M}}{\beta^- 32.32\text{s}}$     |
| $\frac{777.019}{776.84}$                  | Rb <sup>90</sup> <sub>37</sub> | $\frac{89.91460}{89.91480}$ | 37n | 2+0 | 8+0 | 10+4 | 0+12 | 1+0 | 0+0 | 0+0 | $\frac{6.584\text{M}}{\beta^- 158\text{s}}$       |
| $\frac{780.187}{782.63}$                  | Sr <sup>90</sup> <sub>38</sub> | $\frac{89.91036}{89.90774}$ | 38n | 2+0 | 8+0 | 14+2 | 0+12 | 0+0 | 0+0 | 0+0 | $\frac{545.9\text{K}}{\beta^- 28.90\text{a}}$     |
| $\frac{780.751}{782.40}$                  | Y <sup>90</sup> <sub>39</sub>  | $\frac{89.90892}{89.90715}$ | 39n | 2+0 | 8+0 | 16+1 | 1+11 | 0+0 | 0+0 | 0+0 | $\frac{2.2789\text{M}}{\beta^- 64.053\text{h}}$   |
| $\frac{780.938}{783.89}$                  | Zr <sup>90</sup> <sub>40</sub> | $\frac{89.90788}{89.90470}$ | 40n | 2+0 | 8+0 | 18+0 | 2+10 | 0+0 | 0+0 | 0+0 | $\frac{\text{st}}{51.45\%}$                       |
| $\frac{776.058}{777.00}$                  | Nb <sup>90</sup> <sub>41</sub> | $\frac{89.91228}{89.91126}$ | 41n | 2+0 | 8+0 | 18+0 | 5+7  | 0+1 | 0+0 | 0+0 | $\frac{6.111\text{M}}{ce14.60\text{h}}$           |
| $\frac{774.151}{773.72}$                  | Mo <sup>90</sup> <sub>42</sub> | $\frac{89.91348}{89.91394}$ | 42n | 2+0 | 8+0 | 18+0 | 6+6  | 1+0 | 1+0 | 0+0 | $\frac{2.489\text{M}}{ce5.56\text{h}}$            |
| $\frac{763.528}{763.98}$                  | Tc <sup>90</sup> <sub>43</sub> | $\frac{89.92405}{89.92356}$ | 43n | 2+0 | 8+0 | 18+0 | 9+2  | 1+2 | 1+0 | 0+0 | $\frac{9.451\text{M}}{ce8.70\text{s}}$            |
| $\frac{757.193}{757.30}$                  | Ru <sup>90</sup> <sub>44</sub> | $\frac{89.93001}{89.92989}$ | 44n | 2+0 | 8+0 | 18+0 | 10+0 | 3+2 | 1+0 | 0+0 | $\frac{5.840\text{M}}{ce11.7\text{s}}$            |
| $\frac{743.893}{744.43}$                  | Rh <sup>90</sup> <sub>45</sub> | $\frac{89.94345}{89.94287}$ | 45n | 2+0 | 8+0 | 18+0 | 6+0  | 7+0 | 4+0 | 0+0 | $\frac{12.90\text{M}}{ce12.0\text{ms}}$           |