



5`i b]j YfgU`hfYbX`]b`h`Y`V]bX]b[ `YbYf[ ]Yg`cZXYYd`]a di f]h]Yg`]b`gYa ]Vt`bXi Vtcf`g  
A ">"7UXUgž5": Uhn]cžUbX`5`YI`Ni b[ Yf`

7]h]h]cb. `5dd`]YX`D\ng]Mg`@YHfYg`() ž\* +%f% , (ł/Xc].`%\$"%\$\*'`#%'-)` ) %

J ]Yk`cb`]bY. `h]d.##Xl`"Xc]"cf[ #&%"\$\*'`#%'-)` ) %

J ]Yk`HUV`Y`cZ7`cbh]b]g. `h]d.##gV]h]h]cb"U]d"cf[ #&cbYb]h]U]d#ci`fbU`#Ud`#` ) # 3j Yf1dXZM]j

Di V`]g\YX`Vmi`h`Y`5`D`Di V`]g\]b[

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5fh]WYg`mci`a`UmVY`]b]h]fYg]h]X`]b

7\UfUWYf]h]h]cb`cZXYYd`]a di f]h]Yg`]b`gYa ]Vt`bXi Vtcf`g`Vmi`h]fU`Yfm`h`i`bbY`]b[ `]cb]h]h]cb`

>"5dd""D\ng", +ž', ( `f&\$\$ł/%\$"%\$\*'`#%" +&(`&`

8YYd`YbYf[ m`Yj`Y`g`cZgi`Vgh]h`h]cbU`]a di f]h]mdU]fg`]b`h`Y`k`i`fm]h]Y`gYa ]Vt`bXi Vtcf`NbG`

5dd""D\ng"@YHf`)+ž, +\$`f% - \$ł/%\$"%\$\*'`#%%"\$'` - %



# A universal trend in the binding energies of deep impurities in



