Proton-neutron pairing and alpha-like correlations in nuclei

Trento, September 19 - 23, 2016
The Nuclear Landscape

N=Z - line
- Mirror symmetry
- p and 2p tunneling
- Spin triplet superconductivity
  (T=0 pairing)
- rp-process
  - Novae, X-ray bursts

Heavy Elements
- Shell stability
- Island of SHE

Neutron drip-line
- Halos, Skins
- Pairing at low density
- New shell structure
- New collective modes
- r-process
  - Stars, Supernovae

Neutron number N

Proton number Z
Alpha-like quartets?
Program

- Theoretical Developments
- Experimental Signatures
- Clustering and quartets

- How do p-n correlations manifest themselves?
- Is there a smoking gun?
Brainstorming is a group or individual creativity technique by which efforts are made to find a conclusion for a specific problem by gathering a list of ideas spontaneously contributed by its member(s). The term was popularized by Alex Faickney Osborn in the 1953 book *Applied Imagination*. Osborn claimed that brainstorming was more effective than individuals working alone in generating ideas, although more recent research has questioned this conclusion. Today, the term is used as a catch all for all group ideation sessions.
Savage Chickens
by Doug Savage

HOW'S THE BRAINSTORMING SESSION COMING ALONG?

IT'S NOT SO MUCH "STORMING" AS IT IS "MONOTONOUS DRIZZLING"
The brainstorming session went slowly.
We have an exciting week ahead of us ...