

# BEAMS

|                    |                 |                     |                 |                 |
|--------------------|-----------------|---------------------|-----------------|-----------------|
| super-conductivity | Kelvin          | scientist           | theory          | Nuclear Physics |
| antiquark          | engineer        | temperature         | interact        | insulator       |
| CEBAF              | accelerate      | <b>FREE SPACE!!</b> | energy          | negative        |
| positron           | graph           | continuous          | chemical change | Nitrogen        |
| Helium             | physical change | Jefferson Lab       | accelerator     | nucleon         |

# BEAMS

|                  |                     |                     |            |            |
|------------------|---------------------|---------------------|------------|------------|
| experiment       | resistance          | prototype           | injector   | BEAMS      |
| probe            | chemical properties | gas                 | coordinate | grid       |
| electric current | matter              | <b>FREE SPACE!!</b> | charge     | weight     |
| technician       | conductor           | beam                | meson      | antimatter |
| magnet           | electron            | speed               | voltage    | microscope |

# BEAMS

|                |          |   |          |            |
|----------------|----------|---|----------|------------|
| electro-magnet | data     | quark   | pole     | Celsius    |
| solid          | property | orbit   | SURA     | plasma     |
| nucleus        | science  |  | physics  | cryogenics |
| mass           | force    | scatter   | element  | lepton     |
| proton         | particle | atom  | velocity | neutral    |

# BEAMS

|                 |            |   |                 |                  |
|-----------------|------------|---|-----------------|------------------|
| technician      | SURA       | matter  | science         | accelerator      |
| prototype       | physics    | chemical properties   | proton          | engineer         |
| Nuclear Physics | ion        |  | plasma          | cryogenics       |
| scientist       | coordinate | nucleus   | chemical change | electro-magnet   |
| interact        | element    | orbit   | accelerate      | electric current |

# BEAMS

|          |                    |                          |          |          |
|----------|--------------------|--------------------------|----------|----------|
| liquid   | neutral            | charge                   | speed    | quark    |
| meson    | physical<br>change | theory                   | Helium   | magnet   |
| property | continuous         | <b>FREE<br/>-SPACE!!</b> | graph    | Kelvin   |
| atom     | probe              | beam                     | positron | voltage  |
| gluon    | resistance         | pole                     | electron | injector |

# BEAMS

|                  |             |                          |                        |           |
|------------------|-------------|--------------------------|------------------------|-----------|
| antimatter       | mass        | scatter                  | Celsius                | force     |
| energy           | solid       | particle                 | super-<br>conductivity | lepton    |
| nucleon          | experiment  | <b>FREE<br/>-SPACE!!</b> | data                   | antiquark |
| Jefferson<br>Lab | gas         | microscope               | velocity               | conductor |
| weight           | temperature | grid                     | insulator              | BEAMS     |

# BEAMS

|            |                 |                     |                |                     |
|------------|-----------------|---------------------|----------------|---------------------|
| probe      | Nuclear Physics | lepton              | theory         | positron            |
| microscope | mass            | physics             | science        | pole                |
| velocity   | temperature     | <b>FREE SPACE!!</b> | scientist      | Kelvin              |
| plasma     | property        | chemical change     | electro-magnet | chemical properties |
| solid      | ion             | negative            | BEAMS          | cryogenics          |

# BEAMS

|                    |            |                     |            |                 |
|--------------------|------------|---------------------|------------|-----------------|
| electric current   | gluon      | weight              | Celsius    | grid            |
| injector           | prototype  | element             | continuous | nucleon         |
| neutral            | atom       | <b>FREE SPACE!!</b> | experiment | orbit           |
| quark              | nucleus    | proton              | coordinate | antiquark       |
| super-conductivity | antimatter | data                | conductor  | physical change |

# BEAMS

|               |             |   |            |          |
|---------------|-------------|---|------------|----------|
| interact      | speed       | insulator   | Helium     | matter   |
| Jefferson Lab | accelerator | force   | technician | voltage  |
| gas           | liquid      |  | particle   | engineer |
| accelerate    | resistance  | charge  | meson      | beam     |
| SURA          | scatter     | energy  | graph      | electron |

# BEAMS

|                 |                  |   |                     |                |
|-----------------|------------------|---|---------------------|----------------|
| scatter         | BEAMS            | microscope  | science             | electro-magnet |
| Nuclear Physics | cryogenics       | experiment  | gluon               | nucleus        |
| magnet          | data             |  | Helium              | neutral        |
| Kelvin          | electric current | ion   | chemical properties | Celsius        |
| plasma          | Jefferson Lab    | probe   | prototype           | coordinate     |

# BEAMS

|                 |                    |                     |                 |          |
|-----------------|--------------------|---------------------|-----------------|----------|
| physical change | CEBAF              | antimatter          | chemical change | matter   |
| resistance      | property           | injector            | quark           | grid     |
| lepton          | pole               | <b>FREE SPACE!!</b> | solid           | interact |
| scientist       | super-conductivity | velocity            | temperature     | SURA     |
| gas             | insulator          | proton              | antiquark       | force    |

# BEAMS

|          |            |                     |            |             |
|----------|------------|---------------------|------------|-------------|
| orbit    | technician | liquid              | atom       | speed       |
| particle | element    | charge              | continuous | graph       |
| weight   | negative   | <b>FREE SPACE!!</b> | electron   | Nitrogen    |
| mass     | positron   | engineer            | accelerate | accelerator |
| meson    | physics    | conductor           | theory     | beam        |

# BEAMS

|          |                     |                          |            |                        |
|----------|---------------------|--------------------------|------------|------------------------|
| grid     | technician          | weight                   | graph      | accelerate             |
| electron | atom                | Celsius                  | resistance | theory                 |
| Kelvin   | CEBAF               | <b>FREE<br/>-SPACE!!</b> | engineer   | chemical<br>properties |
| liquid   | electric<br>current | insulator                | conductor  | science                |
| injector | SURA                | Helium                   | microscope | lepton                 |

# BEAMS

|                        |          |                          |                    |                    |
|------------------------|----------|--------------------------|--------------------|--------------------|
| property               | speed    | velocity                 | Nuclear<br>Physics | electro-<br>magnet |
| Jefferson<br>Lab       | nucleon  | antimatter               | antiquark          | coordinate         |
| chemical<br>change     | neutral  | <b>FREE<br/>-SPACE!!</b> | temperature        | experiment         |
| prototype              | proton   | BEAMS                    | Nitrogen           | mass               |
| super-<br>conductivity | positron | beam                     | cryogenics         | physical<br>change |

# BEAMS

|         |            |                     |             |           |
|---------|------------|---------------------|-------------|-----------|
| gas     | element    | nucleus             | meson       | scientist |
| data    | probe      | energy              | solid       | quark     |
| matter  | continuous | <b>FREE SPACE!!</b> | plasma      | charge    |
| scatter | magnet     | voltage             | interact    | orbit     |
| ion     | particle   | gluon               | accelerator | negative  |

# BEAMS

|            |                    |                     |                 |                     |
|------------|--------------------|---------------------|-----------------|---------------------|
| resistance | grid               | positron            | microscope      | chemical properties |
| cryogenics | Nuclear Physics    | electro-magnet      | conductor       | scientist           |
| liquid     | super-conductivity | <b>FREE SPACE!!</b> | chemical change | pole                |
| injector   | continuous         | coordinate          | atom            | solid               |
| experiment | lepton             | electric current    | temperature     | ion                 |

# BEAMS

|           |             |                          |            |         |
|-----------|-------------|--------------------------|------------|---------|
| insulator | interact    | physical<br>change       | neutral    | proton  |
| gas       | accelerator | physics                  | prototype  | weight  |
| Helium    | science     | <b>FREE<br/>-SPACE!!</b> | quark      | nucleus |
| orbit     | electron    | charge                   | speed      | CERN    |
| Nitrogen  | antiquark   | mass                     | technician | Kelvin  |

# BEAMS

|            |                  |                          |          |          |
|------------|------------------|--------------------------|----------|----------|
| velocity   | BEAMS            | Celsius                  | plasma   | element  |
| antimatter | Jefferson<br>Lab | data                     | engineer | theory   |
| SURA       | accelerate       | <b>FREE<br/>-SPACE!!</b> | matter   | magnet   |
| nucleon    | property         | particle                 | energy   | voltage  |
| force      | graph            | probe                    | beam     | negative |

# BEAMS

|            |            |                          |                        |                    |
|------------|------------|--------------------------|------------------------|--------------------|
| injector   | cryogenics | temperature              | charge                 | plasma             |
| BEAMS      | element    | physics                  | super-<br>conductivity | nucleus            |
| grid       | resistance | <b>FREE<br/>-SPACE!!</b> | prototype              | particle           |
| gas        | experiment | interact                 | electric<br>current    | velocity           |
| coordinate | voltage    | science                  | beam                   | electro-<br>magnet |

# BEAMS

|                        |           |                          |                    |            |
|------------------------|-----------|--------------------------|--------------------|------------|
| speed                  | ion       | antimatter               | neutral            | microscope |
| Nuclear<br>Physics     | insulator | matter                   | physical<br>change | property   |
| chemical<br>properties | electron  | <b>FREE<br/>-SPACE!!</b> | probe              | lepton     |
| meson                  | weight    | scientist                | Celsius            | pole       |
| liquid                 | conductor | data                     | orbit              | force      |

# BEAMS

|          |                 |                     |          |            |
|----------|-----------------|---------------------|----------|------------|
| Kelvin   | theory          | solid               | CERN     | nucleon    |
| negative | energy          | continuous          | positron | accelerate |
| quark    | chemical change | <b>FREE SPACE!!</b> | Helium   | graph      |
| mass     | accelerator     | proton              | gluon    | technician |
| SURA     | Jefferson Lab   | antiquark           | atom     | Nitrogen   |

# BEAMS

|                 |            |                     |            |                |
|-----------------|------------|---------------------|------------|----------------|
| Kelvin          | Nitrogen   | plasma              | particle   | electro-magnet |
| Nuclear Physics | resistance | antiquark           | antimatter | probe          |
| gas             | grid       | <b>FREE SPACE!!</b> | element    | science        |
| neutral         | data       | chemical properties | engineer   | technician     |
| property        | insulator  | continuous          | BEAMS      | mass           |

# BEAMS

|           |                 |                     |                 |          |
|-----------|-----------------|---------------------|-----------------|----------|
| injector  | meson           | coordinate          | solid           | positron |
| conductor | chemical change | quark               | Celsius         | gluon    |
| pole      | prototype       | <b>FREE SPACE!!</b> | microscope      | theory   |
| orbit     | force           | CEBAF               | temperature     | physics  |
| scientist | negative        | weight              | physical change | scatter  |

# BEAMS

|                  |             |                     |          |               |
|------------------|-------------|---------------------|----------|---------------|
| electric current | nucleus     | magnet              | atom     | Jefferson Lab |
| SURA             | charge      | matter              | Helium   | experiment    |
| cryogenics       | graph       | <b>FREE SPACE!!</b> | interact | energy        |
| accelerate       | accelerator | voltage             | proton   | ion           |
| electron         | velocity    | liquid              | lepton   | beam          |

# BEAMS

|                 |          |                     |             |            |
|-----------------|----------|---------------------|-------------|------------|
| Nuclear Physics | lepton   | resistance          | scientist   | atom       |
| neutral         | element  | chemical properties | temperature | scatter    |
| experiment      | velocity | <b>FREE SPACE!!</b> | gluon       | liquid     |
| probe           | theory   | matter              | energy      | physics    |
| insulator       | interact | electric current    | negative    | cryogenics |

# BEAMS

|           |                 |                     |          |            |
|-----------|-----------------|---------------------|----------|------------|
| conductor | technician      | particle            | force    | plasma     |
| beam      | Nitrogen        | Kelvin              | science  | injector   |
| ion       | chemical change | <b>FREE SPACE!!</b> | property | coordinate |
| gas       | continuous      | engineer            | orbit    | charge     |
| prototype | graph           | accelerate          | SURA     | meson      |

# BEAMS

|            |                    |                     |                 |                     |
|------------|--------------------|---------------------|-----------------|---------------------|
| microscope | proton             | electro-magnet      | gluon           | chemical properties |
| BEAMS      | neutral            | Celsius             | property        | meson               |
| experiment | Nuclear Physics    | <b>FREE SPACE!!</b> | element         | SURA                |
| magnet     | super-conductivity | liquid              | engineer        | force               |
| nucleon    | Helium             | ion                 | chemical change | interact            |

# BEAMS

|            |                  |                     |            |             |
|------------|------------------|---------------------|------------|-------------|
| graph      | CEBAF            | atom                | speed      | matter      |
| coordinate | negative         | scientist           | science    | charge      |
| conductor  | electric current | <b>FREE SPACE!!</b> | physics    | orbit       |
| nucleus    | weight           | Jefferson Lab       | accelerate | scatter     |
| cryogenics | quark            | prototype           | energy     | temperature |

# BEAMS

|            |            |                     |             |                 |
|------------|------------|---------------------|-------------|-----------------|
| continuous | insulator  | lepton              | antimatter  | data            |
| gas        | grid       | probe               | Nitrogen    | resistance      |
| beam       | mass       | <b>FREE SPACE!!</b> | voltage     | Kelvin          |
| engineer   | positron   | antiquark           | velocity    | physical change |
| plasma     | technician | solid               | accelerator | theory          |

# BEAMS

|          |                 |                     |                |         |
|----------|-----------------|---------------------|----------------|---------|
| nucleon  | accelerator     | proton              | mass           | grid    |
| magnet   | Jefferson Lab   | super-conductivity  | nucleus        | BEAMS   |
| electron | physical change | <b>FREE SPACE!!</b> | solid          | Celsius |
| speed    | Helium          | antiquark           | electro-magnet | pole    |
| voltage  | positron        | CEBAF               | data           | quark   |

# BEAMS

|                     |                    |                          |            |             |
|---------------------|--------------------|--------------------------|------------|-------------|
| speed               | pole               | CEBAF                    | physics    | temperature |
| continuous          | solid              | theory                   | ion        | engineer    |
| proton              | interact           | <b>FREE<br/>-SPACE!!</b> | Celsius    | microscope  |
| probe               | experiment         | BEAMS                    | element    | property    |
| electric<br>current | electro-<br>magnet | lepton                   | resistance | Kelvin      |

# BEAMS

|                    |                        |                          |                    |                    |
|--------------------|------------------------|--------------------------|--------------------|--------------------|
| atom               | data                   | beam                     | physical<br>change | energy             |
| Nuclear<br>Physics | positron               | plasma                   | particle           | gas                |
| Jefferson<br>Lab   | chemical<br>properties | <b>FREE<br/>-SPACE!!</b> | antiquark          | nucleus            |
| quark              | mass                   | super-<br>conductivity   | coordinate         | chemical<br>change |
| injector           | technician             | prototype                | science            | force              |

# BEAMS

|          |            |                     |           |            |
|----------|------------|---------------------|-----------|------------|
| nucleon  | antimatter | accelerator         | grid      | insulator  |
| weight   | accelerate | voltage             | Helium    | conductor  |
| neutral  | magnet     | <b>FREE SPACE!!</b> | scientist | matter     |
| meson    | charge     | velocity            | electron  | graph      |
| negative | scatter    | Nitrogen            | gluon     | cryogenics |

# BEAMS

|            |                     |                     |                 |             |
|------------|---------------------|---------------------|-----------------|-------------|
| scientist  | SURA                | beam                | engineer        | atom        |
| technician | quark               | accelerate          | nucleus         | injector    |
| lepton     | chemical properties | <b>FREE SPACE!!</b> | science         | mass        |
| resistance | coordinate          | physics             | charge          | insulator   |
| Kelvin     | continuous          | super-conductivity  | physical change | temperature |