

| Publication | Type | Field direction | Technique | Ref. |
|---|---------------------|---|---|------|
| Magnetic ordering in cerium hexaboride | $\mathbf{B}-T$ | $\langle 110 \rangle$ | Neutron scattering | [11] |
| Thesis: Jean-Michelle Effantin | $\mathbf{B}-T$ | $\langle 100 \rangle, \langle 111 \rangle$ | Neutron scattering | [22] |
| Magnetic form factor measurements in cerium hexaboride | $\mathbf{B}-T$ | $\langle 111 \rangle$ | Neutron scattering | [23] |
| Magnetic phase diagram of CeB_6 | $\mathbf{B}-T$ | $\langle 100 \rangle, \langle 111 \rangle$ | Neutron scattering | [12] |
| Extension of the temperature – magnetic field phase diagram of CeB_6 | $\mathbf{B}-T$ | $\langle 100 \rangle, \langle 110 \rangle$ | Magnetometry | [24] |
| The magnetic behaviour of CeB_6 : Comparison between elastic and inelastic neutron scattering, initial susceptibility and high-field magnetization | $\mathbf{B}-T$ | $\langle 100 \rangle, \langle 110 \rangle, \langle 111 \rangle$ | Neutron scattering and magnetisation | [25] |
| Magnetoresistance and magnetisation anomalies in CeB_6 | $\mathbf{B}-T$ | $\langle 110 \rangle, \langle 111 \rangle$ | Magnetoresistance | [26] |
| Magnetic properties of a CeB_6 single crystal | $\mathbf{B}-T$ | $\langle 100 \rangle, \langle 110 \rangle, \langle 111 \rangle$ | Magnetisation | [27] |
| Electrical resistivity and magnetoresistance | $\mathbf{B}-T$ | $\langle 100 \rangle, \langle 110 \rangle, \langle 111 \rangle$ | Magnetoresistance | [7] |
| Anomalous specific heat in CeB_6 | $\mathbf{B}-T$ | $\langle 100 \rangle, \langle 110 \rangle, \langle 111 \rangle$ | Heat capacity | [10] |
| Enhancement of band magnetism and features of the magnetically ordered state in the CeB_6 compound with strong electron correlations | $\mathbf{B}-T$ | $\langle 111 \rangle, \langle 110 \rangle$ | Magnetisation | [28] |
| Pressure dependence of quadrupole ordering temperature T_Q in CeB_6 | $T-P$ | — | Resistivity | [13] |
| High pressure studies of cerium hexaboride | $\mathbf{B}-T, T-P$ | $\langle 100 \rangle, \langle 110 \rangle$ | Magnetic susceptibility and magnetoresistance | [29] |
| Specific heat of CeB_6 under high pressure | $T-P$ | — | Heat capacity | [30] |
| Dense Kondo behavior in CeB_6 and its alloys | $\mathbf{B}-T$ | $\langle 111 \rangle$ | Ultrasound | [31] |
| Magnetic phase diagram of $\text{Ce}_{0.5}\text{La}_{0.5}\text{B}_6$ under high pressure | $\mathbf{B}-T$ | $\langle 100 \rangle$ | Magnetization | [32] |
| Stable Existence of phase IV inside phase II under pressure in $\text{Ce}_{0.8}\text{La}_{0.2}\text{B}_6$ | $\mathbf{B}-T$ | $\langle 100 \rangle, \langle 110 \rangle$ | Magnetization | [18] |
| Neutron scattering study of the antiferroquadrupolar ordering in CeB_6 and $\text{Ce}_{0.75}\text{La}_{0.25}\text{B}_6$ | $\mathbf{B}-T$ | $\langle 110 \rangle$ | Neutron scattering | [19] |
| Magnetic phase diagram of $\text{Ce}_x\text{La}_{1-x}\text{B}_6$ studied by static magnetization measurement at very low temperatures | $\mathbf{B}-T-x$ | $\langle 100 \rangle$ | Magnetisation | [14] |
| Elastic properties and magnetic phase diagrams of dense Kondo compound $\text{Ce}_{0.75}\text{La}_{0.25}\text{B}_6$ | $\mathbf{B}-T$ | $\langle 100 \rangle, \langle 110 \rangle, \langle 100 \rangle$ | Ultrasound | [20] |
| Evidence for hidden quadrupolar fluctuations behind the octupole order in $\text{Ce}_{0.7}\text{La}_{0.3}\text{B}_6$ from resonant x-ray diffraction in magnetic fields | $\mathbf{B}-T$ | $\langle 100 \rangle$ | RXS | [33] |
| Magnetic phase diagrams of kondo compounds $\text{Ce}_{0.75}\text{La}_{0.25}\text{B}_6$ and $\text{Ce}_{0.6}\text{La}_{0.4}\text{B}_6$ | $\mathbf{B}-T$ | $\langle 100 \rangle$ | Ultrasound and heat capacity | [34] |
| Appearance of the phase IV in $\text{Ce}_x\text{La}_{1-x}\text{B}_6$ at $x \approx 0.8$ | $\mathbf{B}-T$ | $\langle 100 \rangle, \langle 110 \rangle$ | Magnetisation, resistivity and ultrasound | [35] |
| Drastic change of the magnetic phase diagram of $\text{Ce}_x\text{La}_{1-x}\text{B}_6$ between $x = 0.75$ and 0.5 | $\mathbf{B}-T$ | $\langle 100 \rangle, \langle 110 \rangle$ | Resistivity | [21] |

Table 1. This table lists all the known phase diagrams of CeB_6 and $\text{Ce}_{1-x}\text{La}_x\text{B}_6$, indicating the type of phase diagram, the crystal direction along which the magnetic field was applied and the technique of measurement.