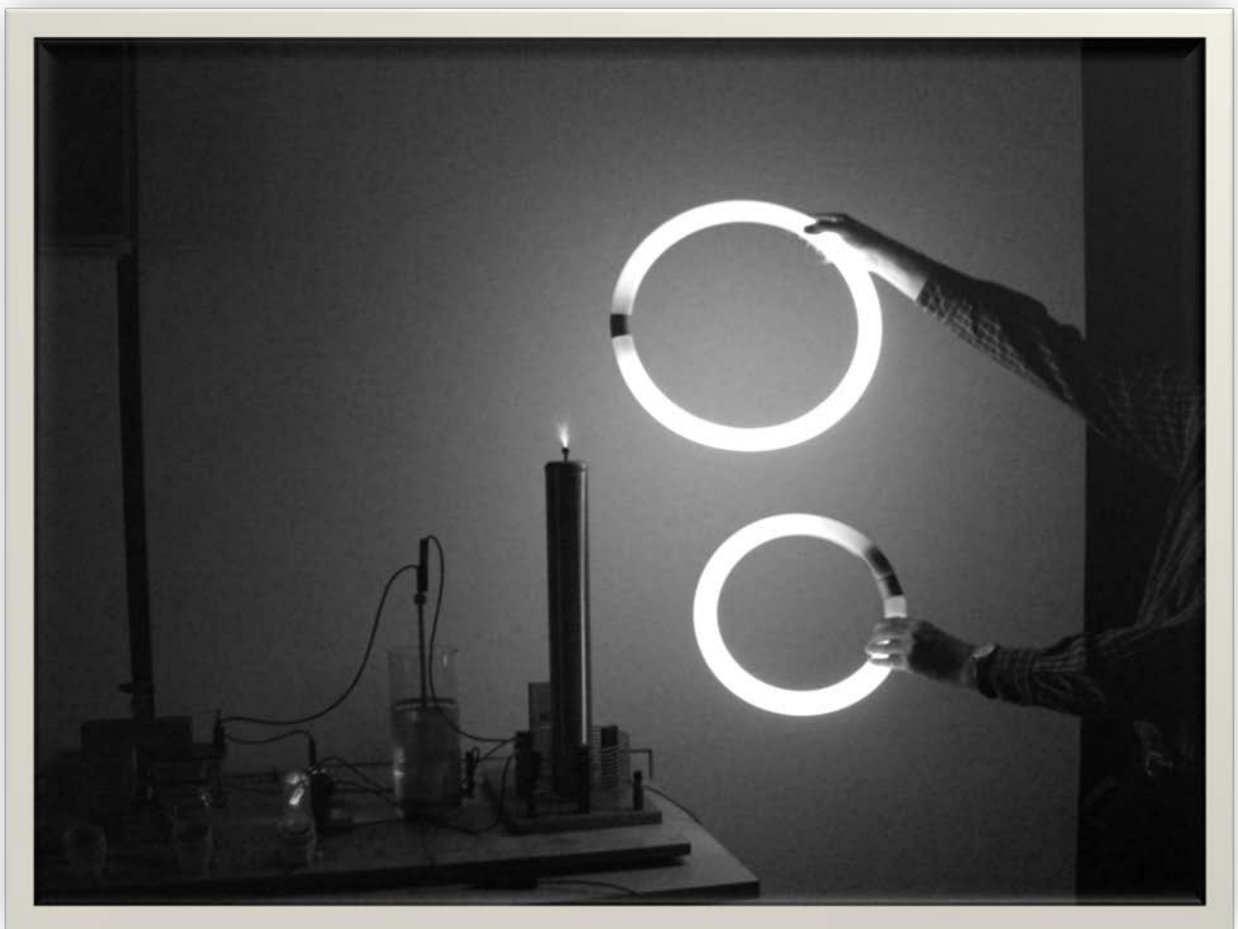


# Demonstrationsexperimente

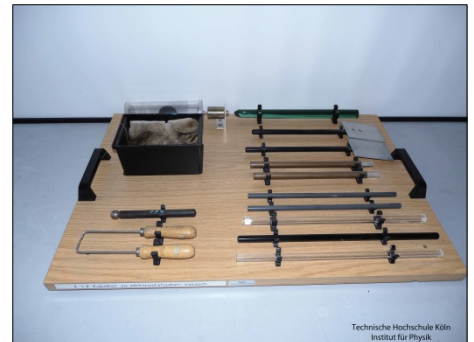
## Elektrotechnik



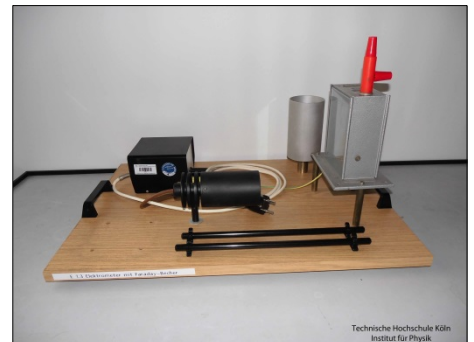
E 1.1 Kräfte zwischen Ladungen



E 1.2 Zubehör zu elektrostatischen Versuchen



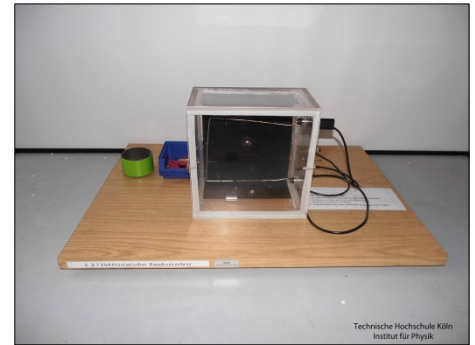
E 1.3 Elektrometer mit Faraday – Becher



E 1.5 Bernstein



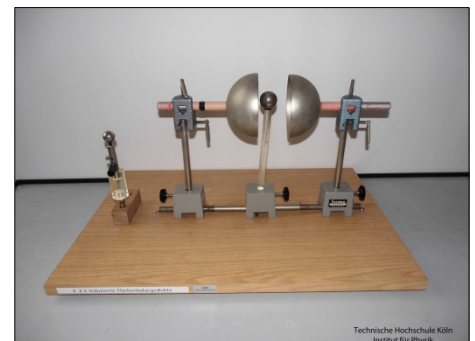
E 2.1 Elektrostatischer Rauchverzehrer



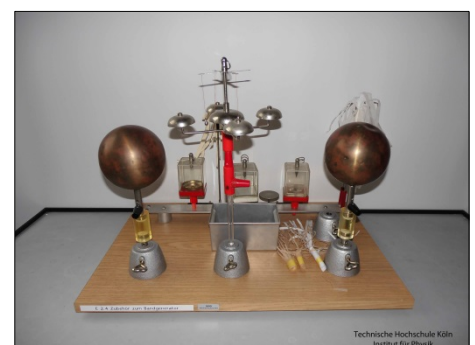
E 2.2 Zwei große Konkuktorkugeln



E 2.3 Induzierte Flächenladungsdichte



E 2.4 Zubehör zum Bandgenerator



E 3.1 Hochspannungsgerät mit Kilovoltmeter



E 3.3 Elektrischer Spitzeneffekt



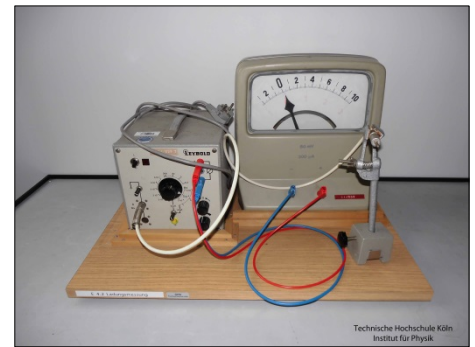
E 4.0 Hochspannungstrafo



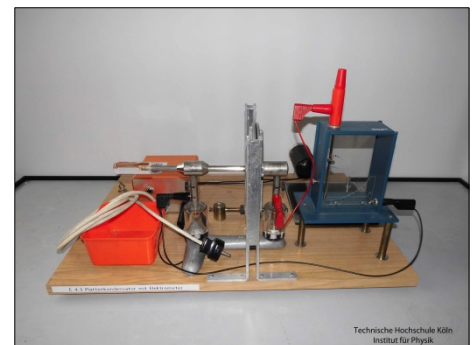
E 4.1 Bandgenerator mit geerdeter Konduktor Kugel



E 4.2 Ladungsmessung



E 4.3 Plattenkondensator mit Elektrometer



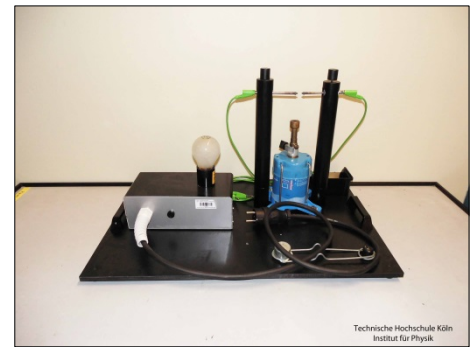
E 5.1 Ladung im Feld eines Plattenkondensators



E 5.2 Niederspannungstrafo



E 5.3 Glas als Leiter



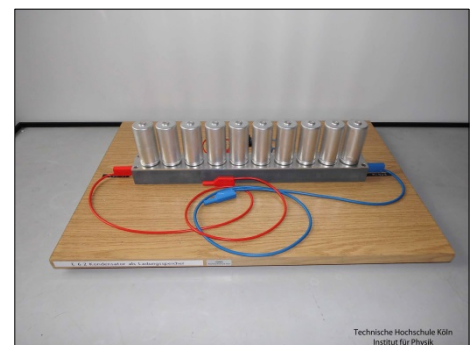
E 5.4 Ferrofluid



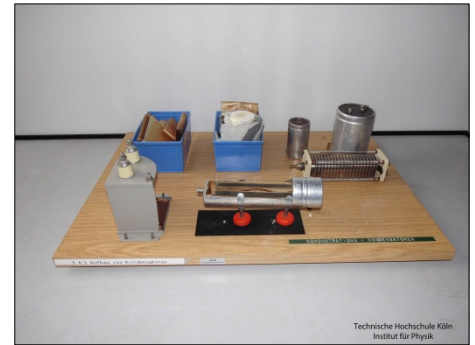
E 6.1 Feldelektronenmikroskop



E 6.2 Kondensator als Ladungsspeicher



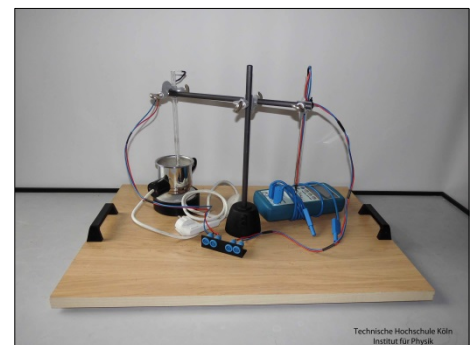
E 6.3 Aufbau vom Kondensatoren



E 6.4 Piezo Effekt



E 7.2 Temperaturabhängigkeit des Widerstandes

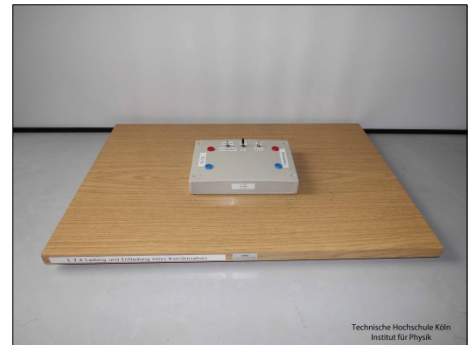


E 7.3 Dehnungsmessgerät

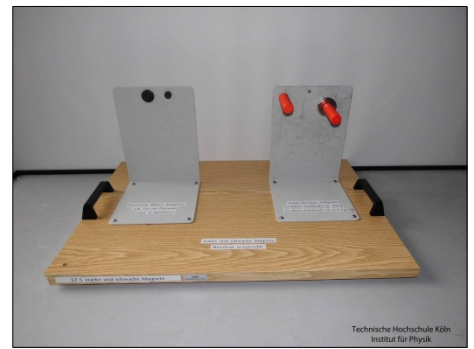




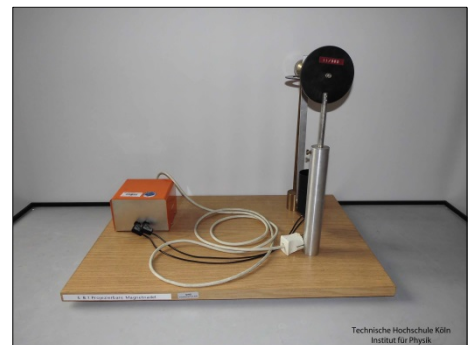
E 7.4 Ladung und Entladung eines Kondensators



E 7.5 Starke und schwache Magnete



E 8.1 Projizierbare Magnetnadel

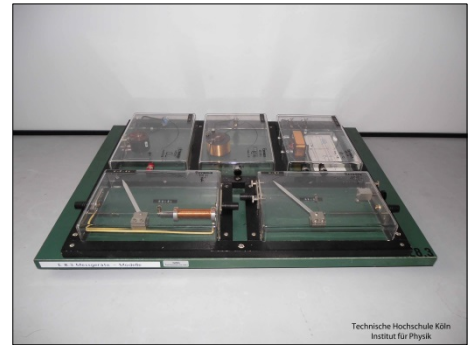


E 8.2 Permanentmagnete





E 8.3 Messgeräte – Modelle



E 8.4 Projektionsversuch Magnetfeld



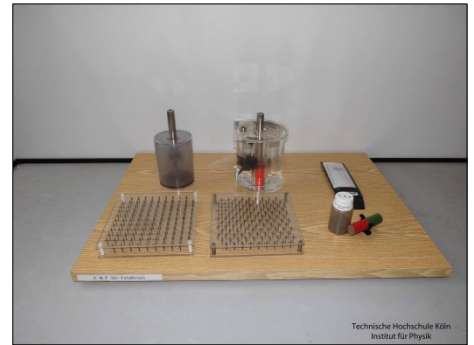
E 8.5 Elektromagnetische Kanone



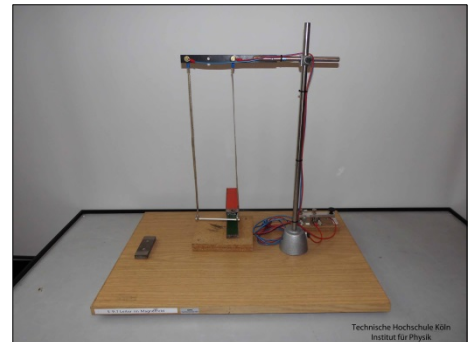
E 8.6 Magnetwagen



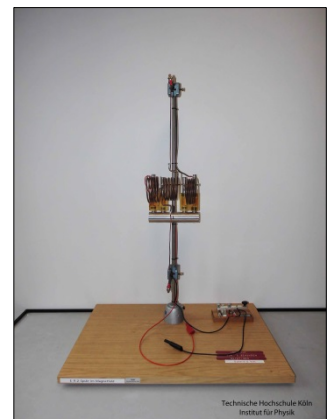
E 8.7 3D – Feldlinien



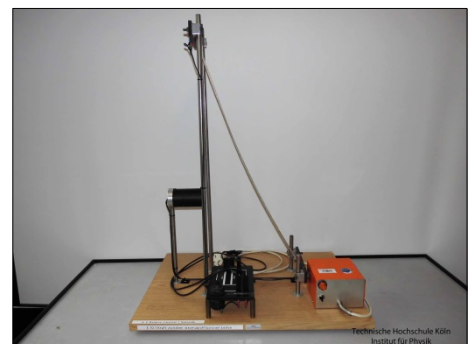
E 9.1 Leiter im Magnetfeld



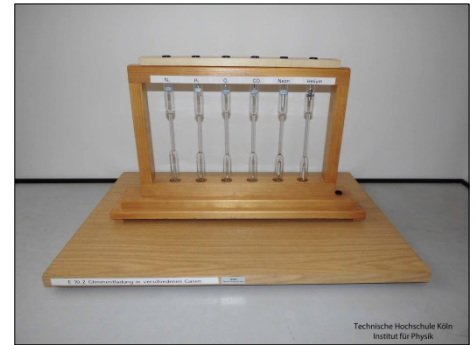
E 9.2 Spule im Magnetfeld



E 10.1 Kraft zwischen stromdurchflossenen Leitern



E 10.2 Glimmentladung



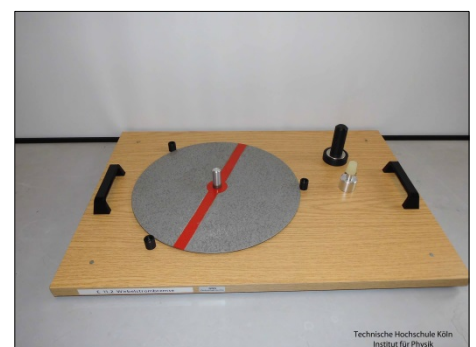
E 10.3 Vakuumskala nach Groß



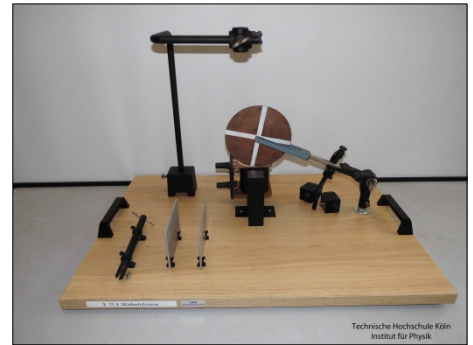
E 11.1 Induktionsspannung



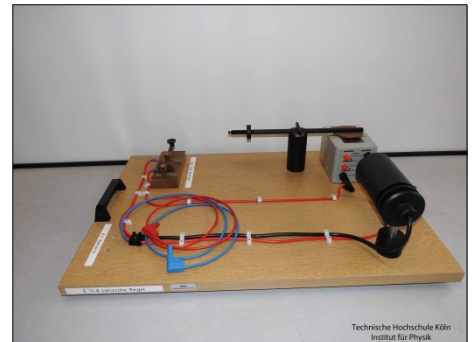
E 11.2 Wirbelstrombremse



E 11.3 Wirbelströme



E 11.4 Lenzsche Regel



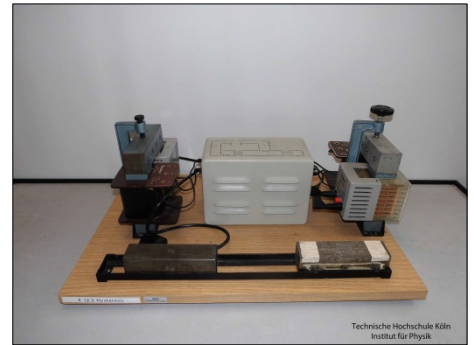
E 12.1 Selbstinduktion



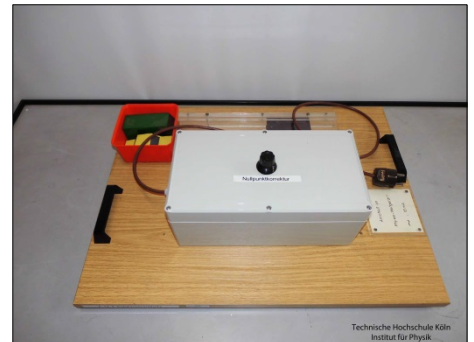
E 12.2 Dia – Paramagnetismus



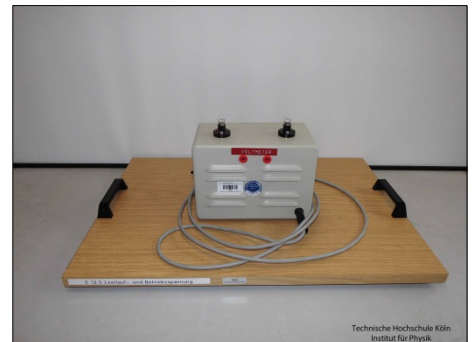
E 12.3 Hysterese



E 12.4 Induktionsschleife



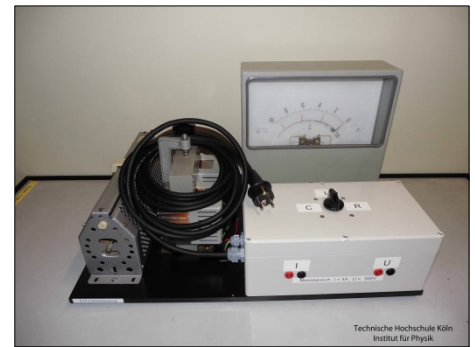
E 12.5 Leerlauf und Betriebsspannung



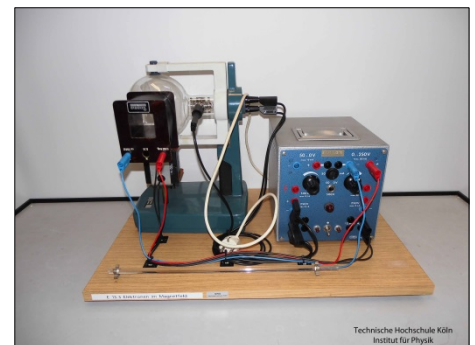
E 13.1 Funkeninduktor



E 13.2 Scheinleistung



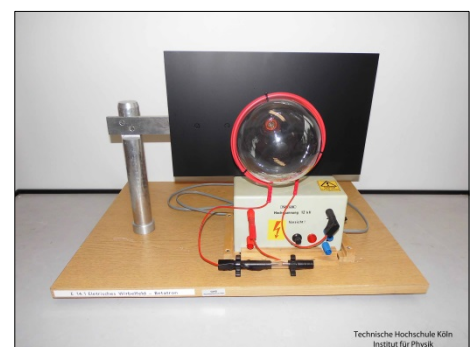
E 13.3 Elektronen im Magnetfeld



E 13.4 Hochfrequenzentladung – Plasmakugel



E 14.1 Elektrisches Wirbelfeld – Betatron





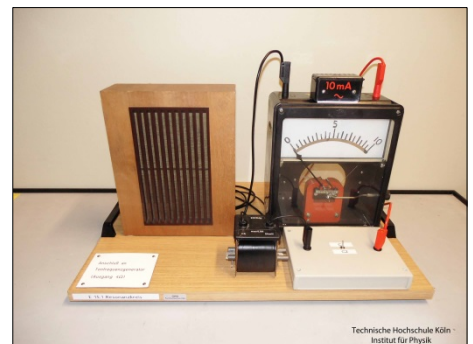
E 14.2 Phasenverschiebung



E 14.3 Bandgenerator mit geerdeter Konduktorkugel



E 15.1 Resonanzkreis



E 15.3 Frequenzgenerator mit Parallelschwingkreis





E 15.4 Frequenzgenerator mit Reihenschwingkreis



E 15.5 Curiertemperatur



E 15.6 Zubehör zur Lecher Leitung



E 16.1 Stelltransformator (0-220 V)



E 16.2 Stelltransformator (0-237 V, 3A)



E 16.3 Stelltransformator (0-260 V, 8,5 A)



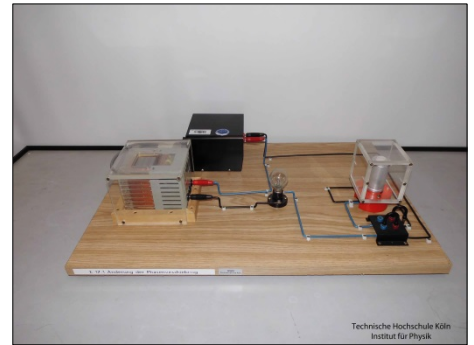
E 16.4 Krabbel-Max – kleiner Tesla Transformator



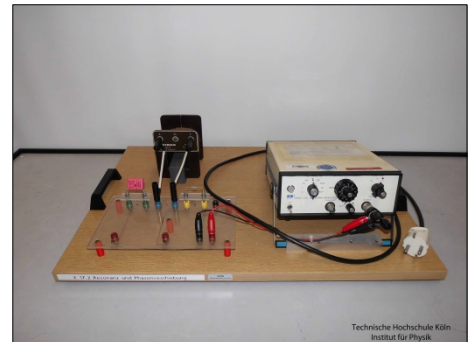
E 16.5 Gasentladung Neon, Argon, Quecksilber



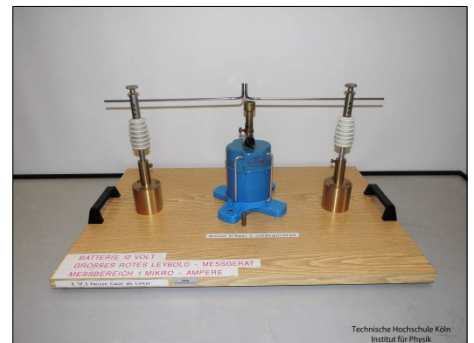
E 17.1 Änderung der Phasenverschiebung



E 17.2 Resonanz und Phasenverschiebung



E 17.3 Heiße Gase als Leiter



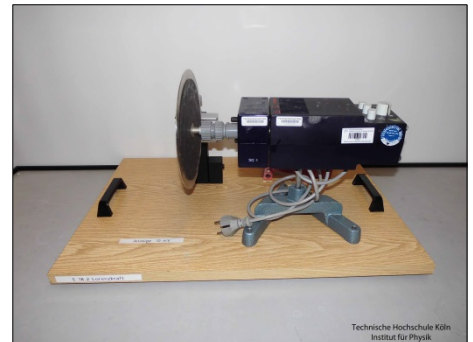
E 17.4 Funktionsgenerator



E 18.1 Chinesischer Kompass



E 18.2 Lorenzkraft



E 18.3 Elektrostatische Felder



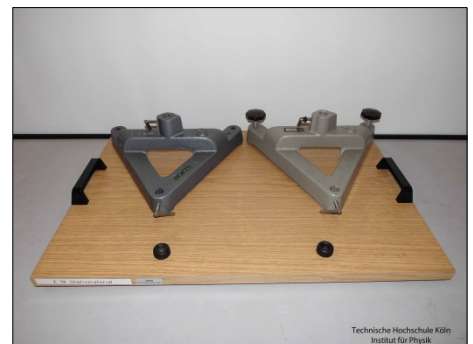
E 18.4 Analogon zur Quantelung der Ladung



E 19.1 Röhrenmonitor



E 19 Stativmaterial



E 19.2 Magic Stick

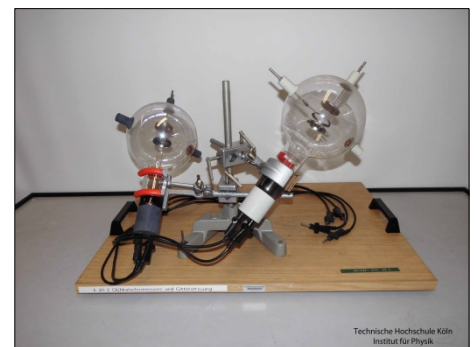




E 20.1 Hall-Sonden



E 20.2 Glühkathodenemission und Gitterstreuung



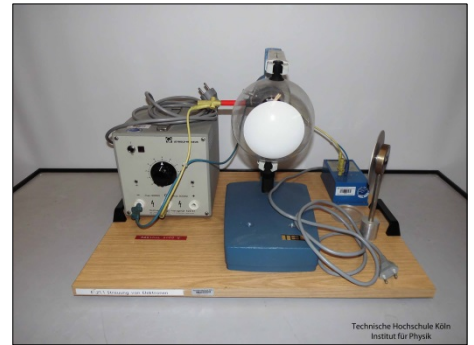
E 20.3 Elektromotoren



E 20.4 Elektromagnete



E 21.1 Streuung von Elektronen



E 21.2 Elektrolytische Zelle



E 21.3 Röhren zur Demonstration von Glimmentladungen

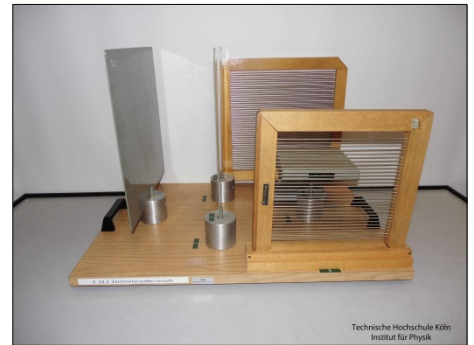


E 21.4 Faradayscher Käfig

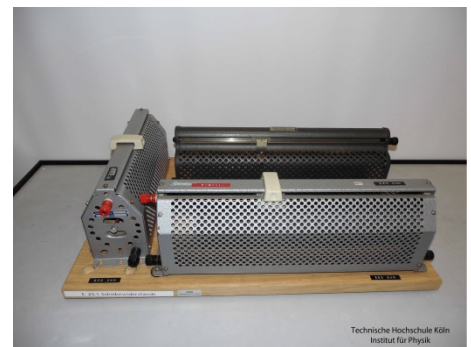




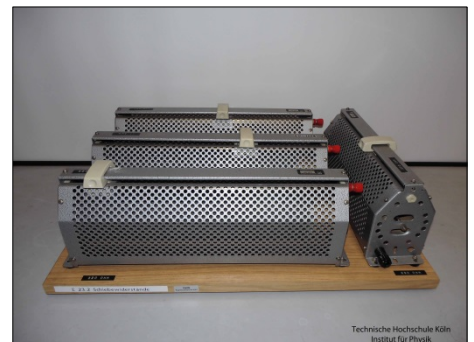
E 22      Zentimeterwellenversuch



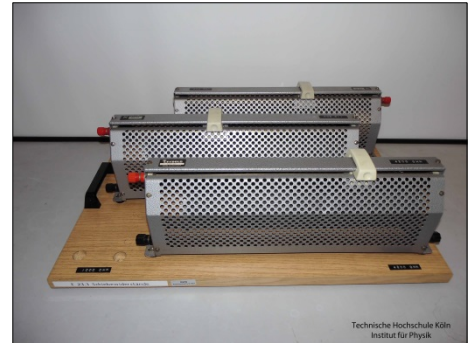
E 23.1      Schiebewiederstände



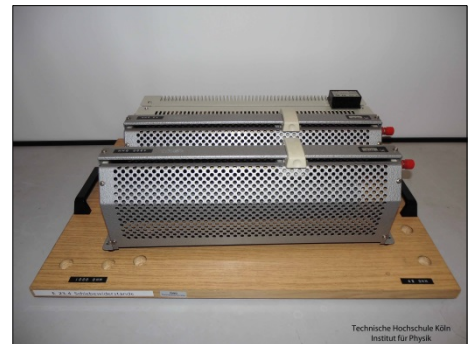
E 23.2      Schiebewiederstände



E 23.3 Schiebewiederstände



E 23.4 Schiebewiederstände



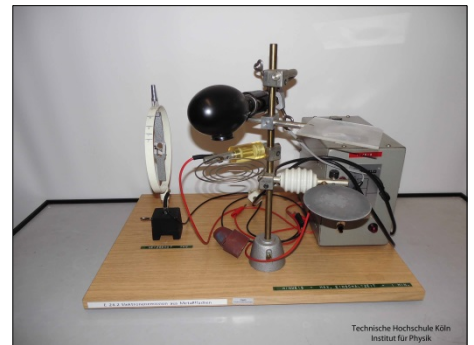
E 23.5 Schalter



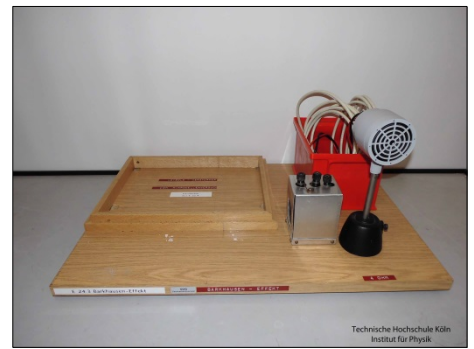
E 24.1 Leiterschaukel – Erdmagnetfeld



E 24.2 Elektronenemission aus Metallflächen



E 24.3 Barkhausen-Effekt



ES 1      Diverse Netzteile



ES 2      Diverse Messgeräte



ES 3      Zubehör zur E-Lehre, diverse Messgeräte



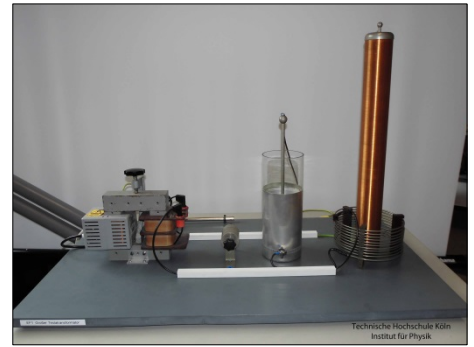
ES 4.1 Elektrostatische Drehwaage



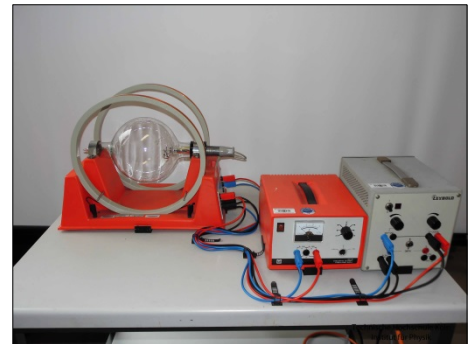
ES 4.2 Laser



EF 1 Großer Teslatransformator



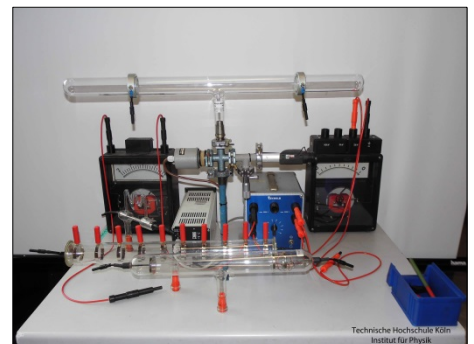
EF 2 Fadenstrahlrohr



EF 3 Lichtelektrischer Effekt

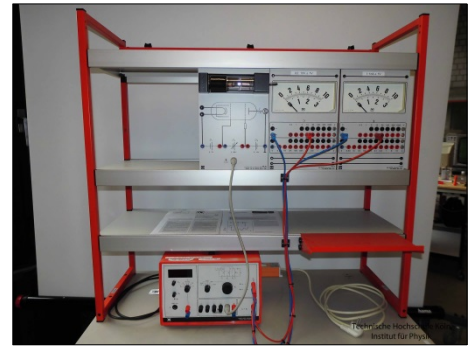


EF 4 Leitfähigkeit verdünnter Gase, Glimmentladung

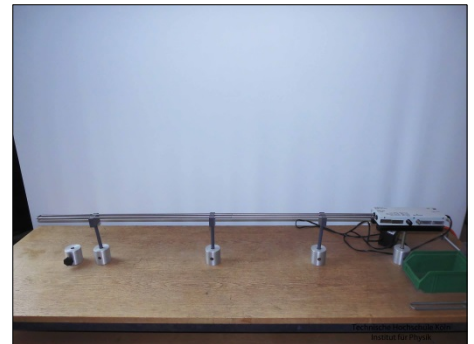




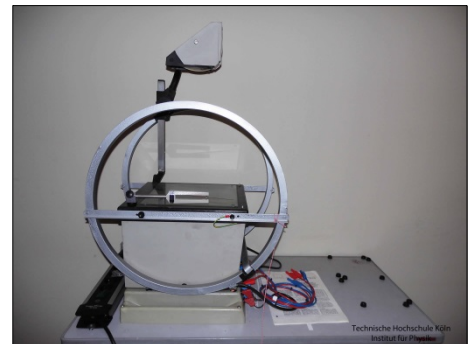
EF 5 Frank-Hertz-Versuch



EF 6 Lecher Leitung



EF 7 Helmholtzspulen mit Dipolen



EF 8 Demonstrationsoszilloskop

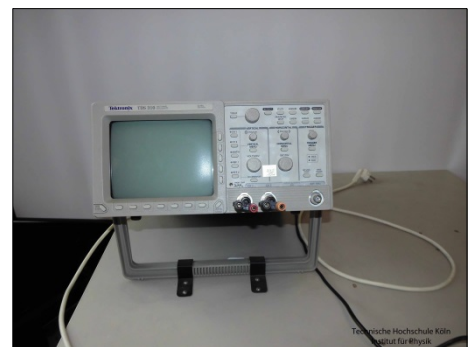




EF 9      Schwebende Metallplatte – Wirbelströme



EF 10     Oszilloskop



EF 11     Demonstrationsoszilloskop



EF 12     Fallröhre für Magnete – Wirbelströme



EF 13      CASSY Grundausrüstung

