Trinity was the codename for the test explosion of the atomic bomb in New Mexico on 16 July 1945. Frank Close tells the story of the bomb’s metaphorical father, Rudolf Peierls (who discovered the concept in 1940); his intellectual son, the atomic spy Klaus Fuchs who worked with him in Birmingham and Los Alamos; and the ghosts of the security services in Britain, the USA and USSR. Frank will reveal new insights from MI5 files in the National Archives, and documents of the FBI and KGB. He has also overthrown a misconception lasting 60 years that J Edgar Hoover was central to Fuchs’ exposure: the real hero was probably the British codebreakers at GCHQ. By using contacts outside the United Kingdom to access documents that remain classified there, he has also found evidence that Fuchs passed information about the Hydrogen bomb to the USSR as early as September 1945. For the first time, Fuchs’ role on the top secret British Atomic bomb project from 1946 to his arrest in 1950 is examined, not least how Fuchs used this to cover his tracks when meeting his Soviet contact in London.