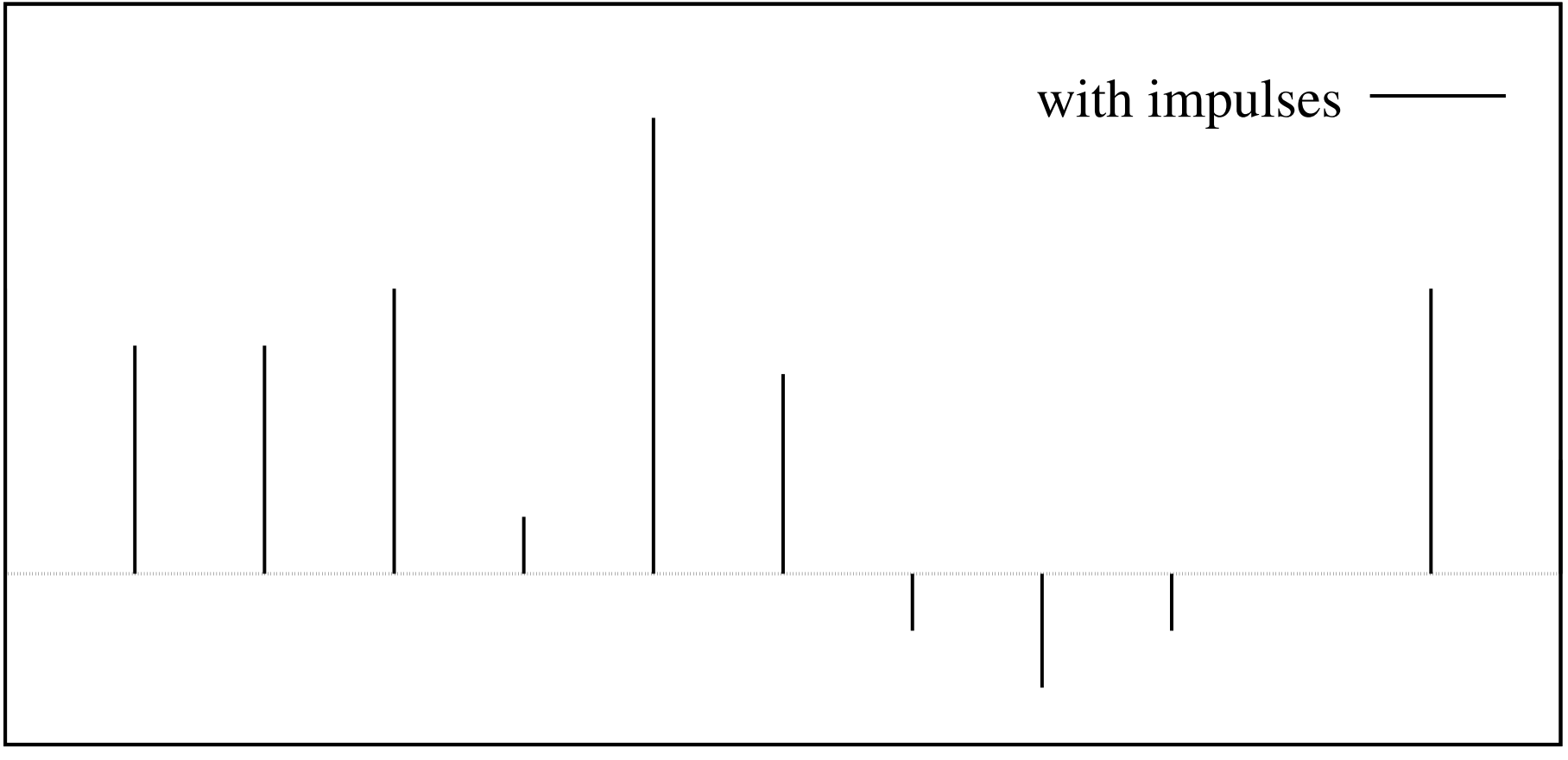
with impulses