

## Using your laptop at the ICTP

Please follow first the indications for either cable or wireless connections. When everything works fine, DHCP will assign your computer an IP address of the form 10.57.x.y or 10.58.x.y. You might then have to change the configuration of your web and mail programs in order for them to be fully functional (see second page). Please see also the list of web resources at the end of the document.

### ***Laptop points with cable***

There are desk spaces with network cables ready to use in the lower level of the AGH (area between the computer labs and lecture halls), in the *MBLab* and downstairs (2S) of the Leonardo building. The guest rooms of the AGH and GGH have active Ethernet sockets, but generally no cable. If needed, cables can be bought at the ICTP Mail Offices (LB and EFB) and at the vending machine at the entrance to the AGH cafeteria.

### ***Wireless connections***

You must have a valid ICTP account in order to use the wireless network. You should receive information about your account from the secretary during registration. You can then use one of the two available wireless networks (*ictp-open* and *ictp-secure*).

### ***Unencrypted network (ictp-open)***

We recommend using this network first: all devices with wlan capabilities (from smartphones to laptop computers) should be able to use it without any configuration. The only drawback is that is not as safe as the encrypted network *ictp-secure*.

To use it, just scan for available networks and connect to the one named *ictp-open*. Next, use your web browser to visit the page <https://login.ictp.it/> and log in with your ICTP username and password. To verify the server's identity, check its fingerprints:

- SHA1 32:78:FA:1E:71:09:79:A6:17:07:74:C7:7A:B0:35:26:DA:7C:61:3B
- MD5 1A:7C:B9:C5:17:15:F0:73:A0:0A:1E:0E:B3:17:FF:24

Keep the page open in the background (or in minimized state) to ensure that your connections remains active. Otherwise you will be asked to log in again whenever you access the network after some idle time.

Please be aware that this network is not secure! When accessing your mail etc., make sure that you are using encrypted protocols, like https for web pages, ssh (Secure Shell) for remote logins, and so on.

### ***Encrypted network (ictp-secure)***

This is a safer network and is therefore recommended for long-term users. The drawbacks are that there are some software requirements that not all devices (like some smartphones) meet, and some first-time setup is needed.

Please visit the page <http://icts.ictp.it/howto/wireless.html> (after connecting by cable or the ictp-open wireless network) for the indications on setting up this network.

### **Web browser configuration**

Please verify your proxy settings as follows (depending on browser and OS used). With Internet Explorer, click on *Tools, Internet Options*, the *Connections* tab, and the *LAN Settings* button. With Safari, go to the *System Preferences, Network*, make a *New Location* (name it) and for *Ethernet* and/or *AirPort*, select the *Proxies* tab. For other browsers, select *Edit/Preferences* or *Options* etc., and look out for keywords like *Advanced, Proxies* or *Connection Settings*.

The best option to try is to **automatically detect the settings** (except for Safari where it is not available). If it works, you can usually keep it this way even when you leave the ICTP.

The next best option is the use of an automatic proxy script, namely <http://wpad.ictp.it/wpad.dat>. If it doesn't work, use a manual setting where you type in **proxy.ictp.it** as host name and **3128** as port number. When you try the various possible settings, make sure that at any moment only one option is activated. Otherwise a non-working option might overrule a functional one and you will have difficulties sorting things out.

Remember that the last two options will definitely not work when you are outside the ICTP, so you have to return to your previous configuration when you leave the ICTP.

### **Mail program settings**

There are several protocols for receiving e-mail (mainly POP and IMAP) and one for sending (SMTP), and each has an unencrypted and a secure version. The ICTP firewall allows receiving e-mail in either mode, but sending only with encryption on.

If you cannot send e-mail, try enabling SSL for sending (SMTP), using port 465. If it does not work, try using [smtp.ictp.it](http://smtp.ictp.it) as SMTP server. Before inserting this address, write down your previous setting. You will need to use SSL and authentication with your ICTP user name and password.

### **VPN**

Virtual Private Networks usually work from within the ICTP. If you are allowed to modify the transport settings, choose TCP rather than UDP. UDP only works with ports 7000-7009.

If your VPN configuration does not work and you are not allowed to change it then try working without it, using secure connections for e-mail and any other service.

### **Troubleshooting**

In case of problems, do not hesitate to contact us. Help is available from ICTS, internal telephone 999.

### **Web resources**

<a href="http://icts.ictp.it/">http://icts.ictp.it/</a>	Information & Communication Technology Section
<a href="http://icts.ictp.it/howto/wireless.html">http://icts.ictp.it/howto/wireless.html</a>	“How to...” section on wireless networks
<a href="http://icts.ictp.it/faq/security.html">http://icts.ictp.it/faq/security.html</a>	Fingerprints of ICTP secure servers
<a href="http://portal.ictp.it/">http://portal.ictp.it/</a>	Main portal for the ICTP community